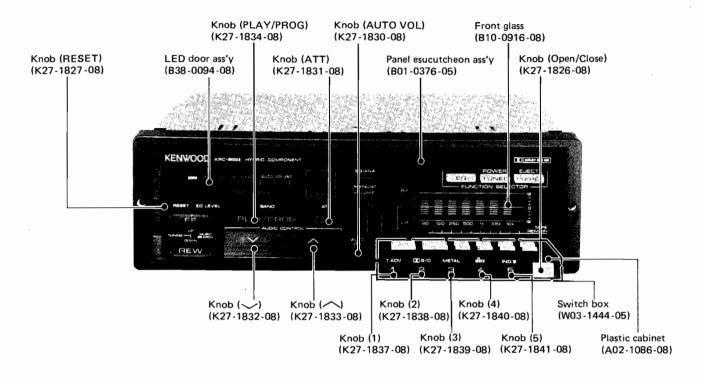
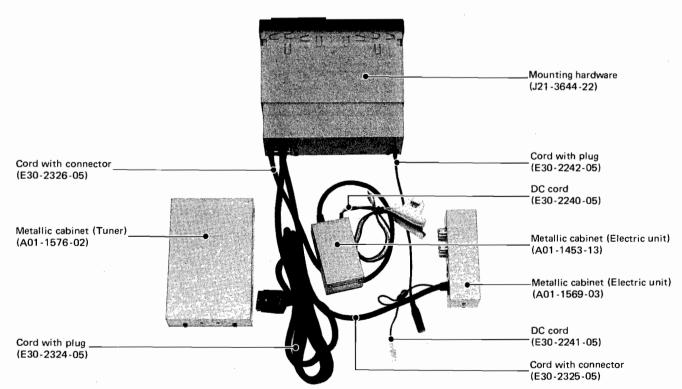
KRC-999II SERVICE MANUAL

KENWOOD

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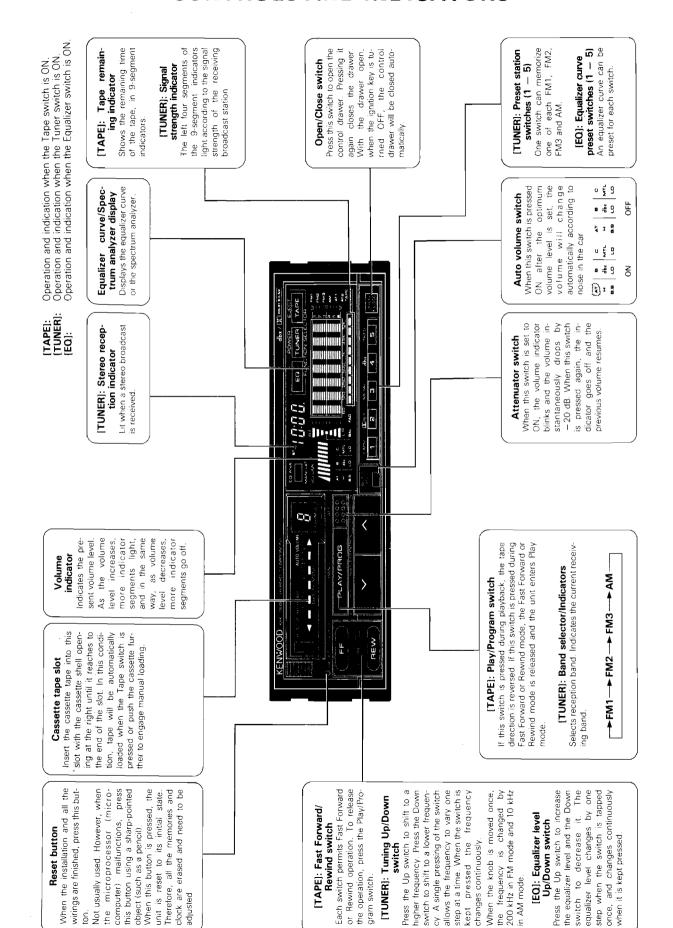


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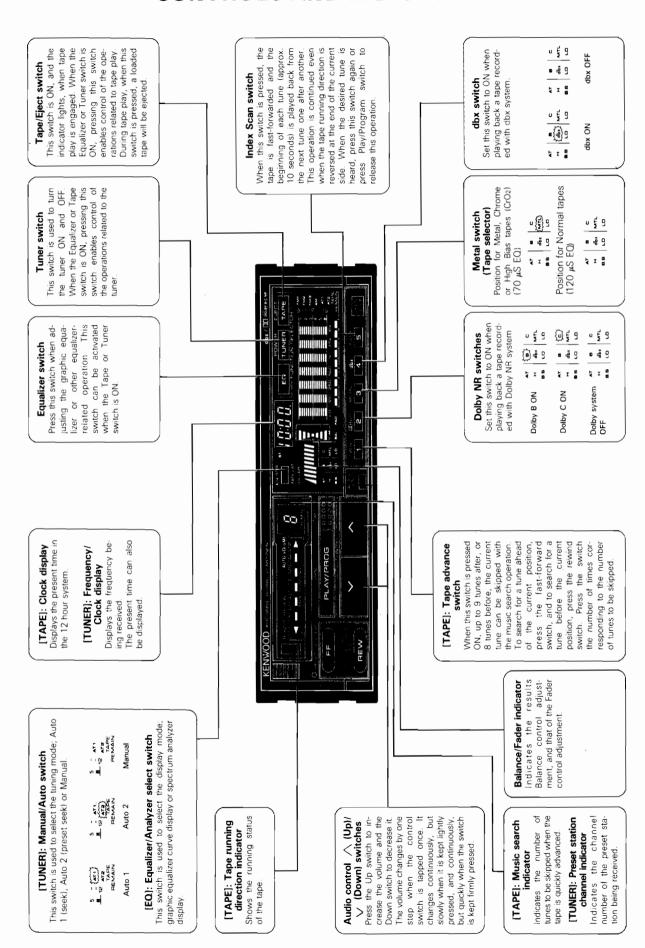


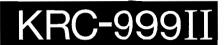
CONTROLS AND INDICATORS



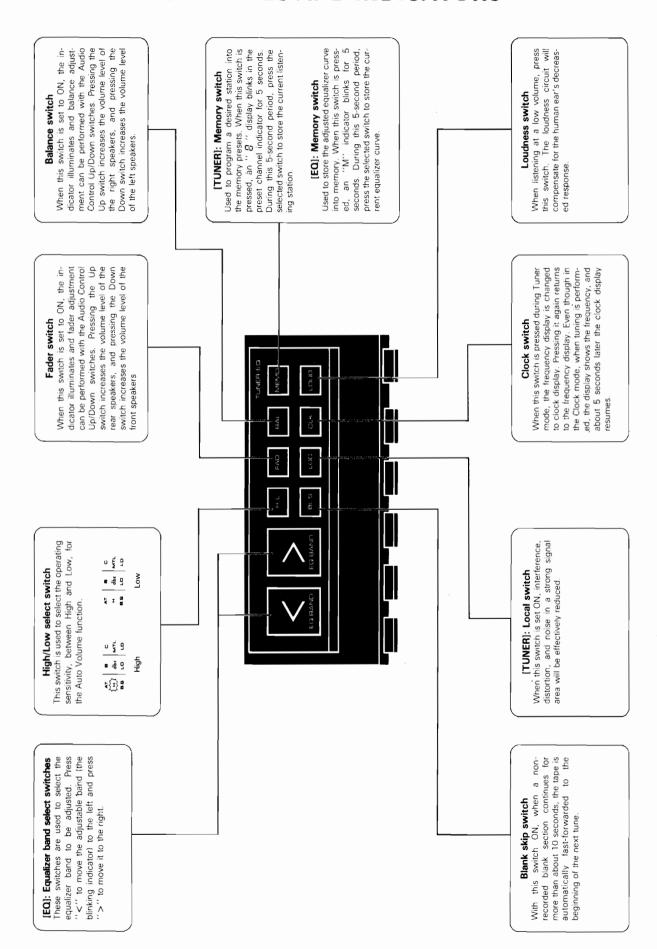


CONTROLS AND INDICATORS





CONTROLS AND INDICATORS

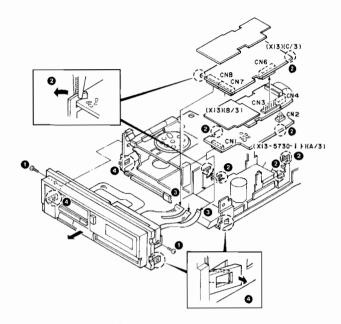


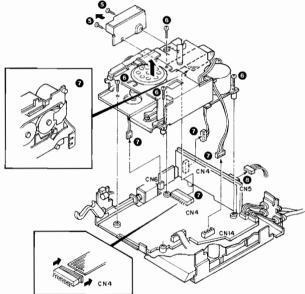


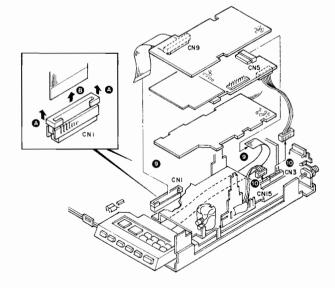
DISASSEMBLY FOR REPAIR

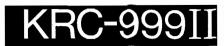
- 1. Front Panel, Cassette Mechanism, PC Boards (Remove the case before proceeding to the following.)
- 1. Remove 1 screw from each side of the front panel (1).
- 2. Bend and disengage the 5 lugs on the metallic holder fixing the PC boards of the SUB-CIRCUIT Unit (1) (X13-5730-11) (A/3, B/3, C/3), disconnect the connections of CN2 and CN4 and of CN3 and CN6, and lift the three PC boards (2).
- 3. Disconnect the flexible cords from CN7 and CN8 of the SUB-CIRCUIT Unit (1) (X13-) (C/3) and from CN1 of the (A/3)(3).
- 4. Disengage the 2 lugs fixing the front panel onto the chassis, and take out the front panel in the direction of the arrow (4).
- 5. Remove the 2 screws fixing the ELECTRIC Unit (X25-3010-11) (D/4), and take out the PC board together with the metallic holder (5).
- 6. Remove the 4 screws fixing the cassette mechanism, and lift the mechanism (6).
- 7. Disconnect connectors CN6 and CN14 on the ELECTRIC Unit (X25-) (A/4) and CN4 on the DOLBY Unit (X14-2190-11), and disconnect the flexible cord on the back of the mechanism from CN4 on the ELECTRIC Unit (X25-) (A/4) (7).
- Disconnect connector CN5 on the DOLBY Unit (X14-) (8).

- 9. Disconnect the flexible cords from CN1 on the ELECTRIC Unit (X25-) (A/4) and from CN5 on the SUB-CIRCUIT Unit (1) (X13-) (B/3) (9).
- 10. Disconnect connectors CN3 and CN15 on the ELECTRIC Unit (X25-) (A/4) (10).



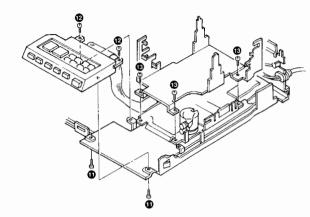


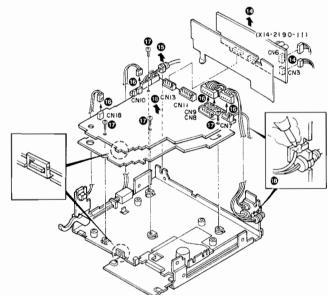




- 11. Remove the 2 screws fixing the switch box to the subchassis from the bottom side (11).
- 12. Similarly to above, remove the 2 screws from the upper side (12).
- 13. Remove the 3 screws fixing the metallic holder to the chassis caulking ass'y, and take out the metallic holder (13).

- 14. Disconnect connectors CN3 and CN6 on the DOLBY Unit (X14-), disconnect its connection (CN11, CN13) with the Electrical Unit (X25-) (A/4), and take out the DOLBY Unit in the direction of the arrow (14).
- 15. Disconnect the remote control cord from CN12 of the ELECTRIC Unit (X25-) (A/4) (15).
- 16. Disconnect connectors CN7, CN8, CN9, CN10 and CN18 on the ELECTRIC Unit (X25-) (A/4) (16).
- 17. Remove the 4 screws fixing the ELECTRIC Unit (X25-) (A/4) onto the chassis caulking ass'y (17).
- 18. Remove the soldering of the GND wire, and take out the ELECTRIC Unit (X25-) (A/4) in the direction of the arrow (18).



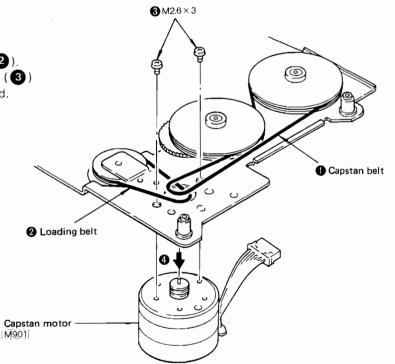


2. Mechanism Ass'y

2-1, Capstan motor

1. Remove the capstan belt and loading belt (1) (2).

2. Remove the 2 screws fixing the capstan motor (3) (4). Now the motor can be removed and replaced.

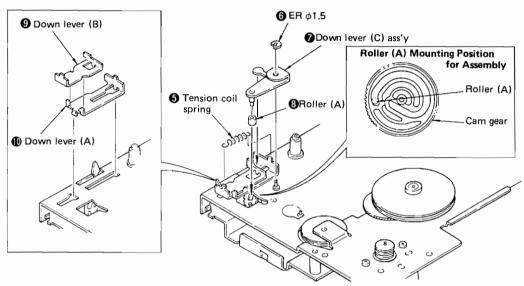




2-2. Down levers A, B

- 3. Remove the spring (5), and remove the E ring fixing the down lever C ass'y (6).
- 4. Pull out the down lever C (7).

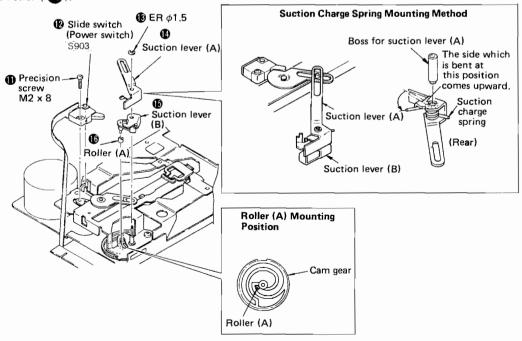
 The roller A is attached to the down lever C ass'y. Be sure not to lose the roller (8).
- 5. Now, the down lever A and down lever B can be taken out (9) (0).



2-3. Cassette holder

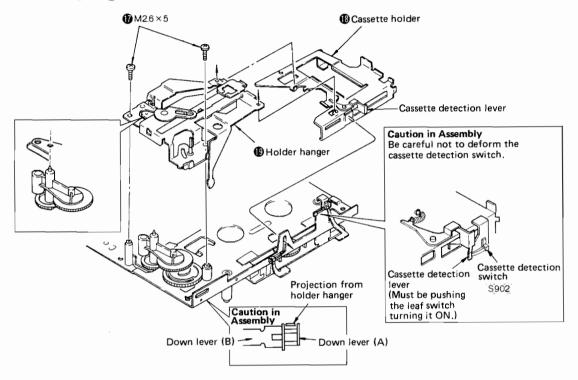
- 6. Remove the screw fixing the Power switch (S903) on the cassette mechanism, and take out the switch (11) (12).
- 7. Remove the E ring fixing the suction lever A, and pull up the lever (13) (14).
- 8. Pull out the suction lever B (15).

 The roller A is attached to the suction lever B. Be sure not to lose the roller (16).



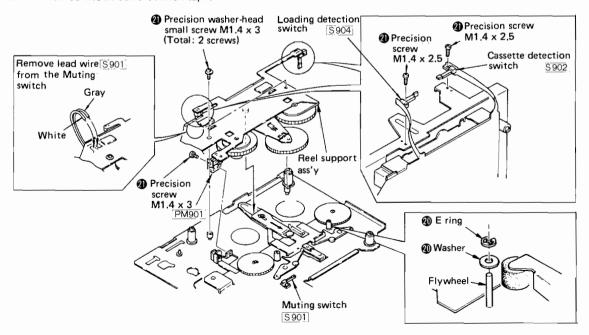


- 9. Remove the 2 screws fixing the holder hanger (17).
- 10. Ensuring that the cassette holder guide boss is inserted into the slit on the mechanism chassis and paying attention to the cassette detection lever and cassette detection switch (S902), lift the cassette hanger and cassette holder (18) (19).



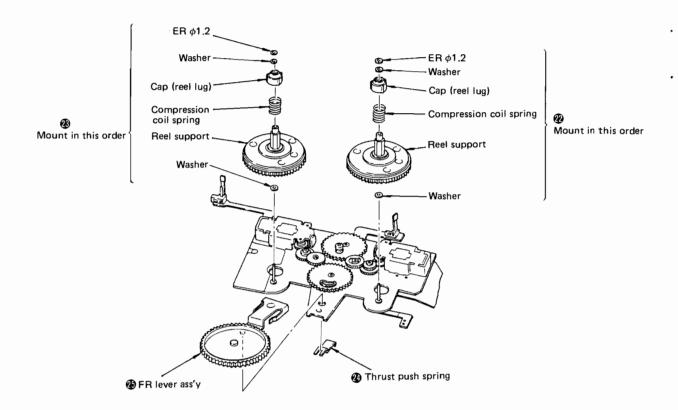
2-4. Control chassis

11. Remove the E ring and washer from the flywheel ass'y (20), then remove the screws of the leaf switch and solenoid (21). Be careful not to damage the capstan section which comes in contact with tape.

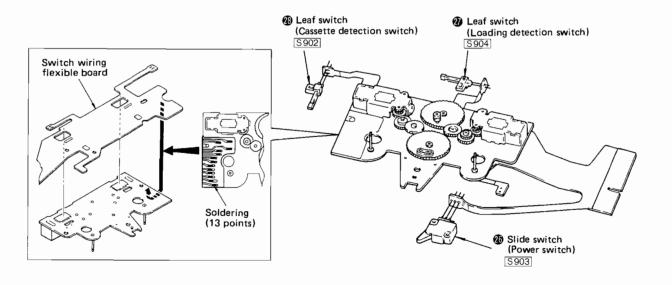




- 12. Remove the reel support together with the E ring on the top and the washer on the bottom (22) (23).
- 13. Remove the thrust push spring, and take out the FR lever ass'y (24) (25).

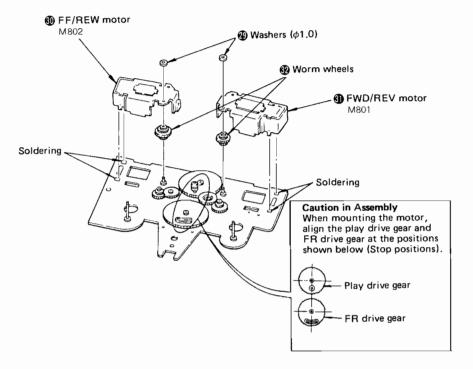


14. Remove the leaf switches, solenoid, etc. on the flexible board. (26) (27) (28).

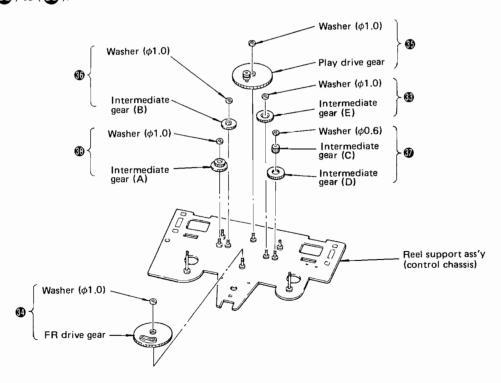


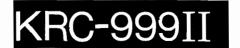


- 15. Remove the motor washers and soldering, and take out the motor (29) (30) (31).
- 16. Remove the worm wheel gears (32).

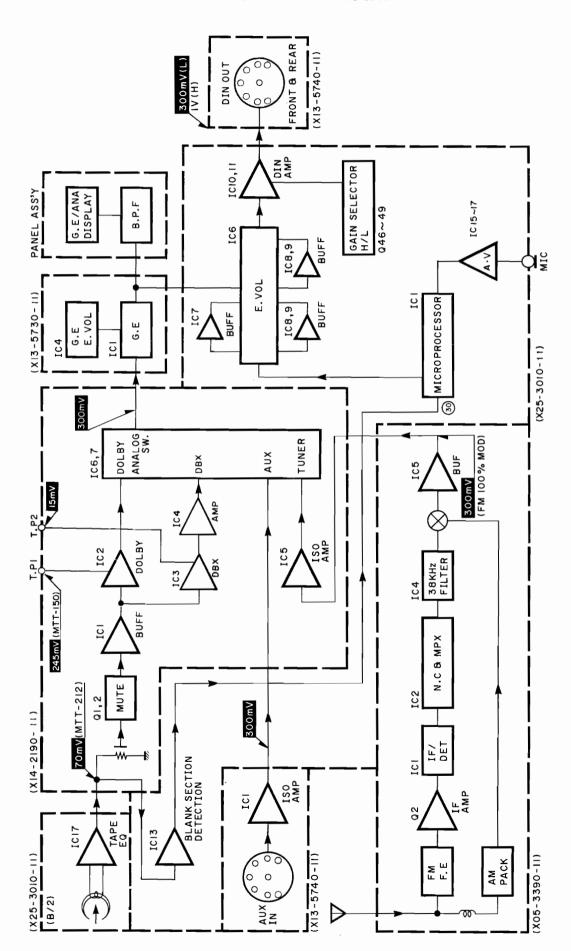


17. Remove the washers of the intermediate gear E, FR drive gear, play drive gear, intermediate gear B, intermediate gear C, intermediate gear D and intermediate gear A, and remove the gears from the reel support ass'y (control chassis) (33) to (33).





BLOCK DIAGRAM





DESCRIPTION OF COMPONENTS

SUB-CIRCUIT UNIT (1) (X13-5730-11)

Component	Application/function	Operation/condition/compatibility
IC1	G.EQ.	7-band hybrid IC for G.EQ. Used in combination with IC2.
IC2	G.EQ.	7-band electronic VR for G.EQ.
IC3	Reset IC	Used for system resetting of G.EQ microprocessor IC4.
IC4	G.EQ microprocessor	Microprocessor which controls the G.EQ volume display and key inputs.
IÇ5	G.EQ key input control	Inhibits G.EQ key inputs when INH is 'L'.
IC6,7	G.EQ key input control	M1 to M5, G/A, G.EQ, UP/DOWN key switches.
IC8,9	G.EQ key input control	G.EQ band f1 to f7 key switches, ME key switch.
IC10	G.EQ band UP/DOWN	Selects G.EQ band f1 to f7 according to data from X25-3010 IC1.
IC11,12	Display LED segment driver	
IC13	Display LED digit driver	
IC14	BCD decoder	Extends digit signals according to data from X25-3010 IC1.
IC15,16	TAPE and TUNER key control	TUNER and TAPE mode key switches.
Q1	Spectrum analyzer muting	Muting of audio signal for spectrum display.
Q2	Spectrum analyzer buffer	Buffer for audio signal for spectrum display.
Q3~5	G.EQ display power switch	Switch which controls G.EQ display power supply with ACC.
Q9,10	Reset switch	Switch which resets IC3 when the Reset switch on the panel is pressed.
Q11	Display control	ON when slide pocket is opened.
Q12,13	AT1, AT2 and MANU switch	AT1, AT2, MANU key switch.
Q14~19	Display LED digit driver	

SUB-CIRCUIT UNIT (2) (X13-5740-11)

Component	Application/function	Operation/condition/compatibility
IC1	ISO amp	Isolation of AUX.
Q1	P-ANT driver	Goes ON when there is P-CON output, and supplies power to P-ANT.
Q2,3	P-ANT protect inhibit	Inhibits the P-ANT protection at the rise of ACC.
Q4	P-ANT protect	Goes ON when P-ANT is grounded, and turns Q1 ON for protection.
Q5,6	P-CON driver	Go ON for P-CON output to the later stage (amp, etc.).

DOLBY NOISE REDUCTION UNIT (X14-2190-11)

Component	Application/function	Operation/condition/compatibility
IC1	Buffer	Buffer in the previous stage to Dolby IC and dbx IC.
IC2	Dolby	Dolby B/C decoder.
IC3	dbx	dbx decoder.
IC4	dbx output stage amp	Amplifies dbx output by 20.8dB.
IC5	ISO amp	Tuner-line isolation amp.
IC6,7	Analog switch	Switching of DOLBY, dbx, TUNER and AUX.
Q1,2	Muting	ON when muting tape output.
Q3	dbx ON/OFF	OFF in dbx mode.
Q4	dbx ON/OFF	ON in dbx mode.
Q5	Tape sound leakage inhibit	ON in TUNER or AUX mode.
Q6,7	AUX P-CON level converter	Conversion of AUX P-CON (microprocessor) into 9V.
Q8,9	TUNER P-CON level converter	Conversion of TUNER P-CON (microprocessor) into 9V.
Q10,11	Dolby B/C	ON in Dolby C mode.
Q12	Dolby ON/OFF	ON when Dolby is OFF.



DESCRIPTION OF COMPONENTS

ELECTRIC UNIT (X25-3010-11)

Component	Application/function	Operation/condition/compatibility
IC1	Master microprocessor	Controls the Slave microprocessor, EV (electronic VR), P-CON, display,
		key input, etc.
IC2	Slave microprocessor	Controls the cassette mechanism, pocket drive (motor),
		deck circuit (Metal, Dolby, FF/REW), etc.
IC3	Reset IC	Resets the Master and Slave microprocessors when VDD (5V) drops to
		the specified voltage (4.6V).
IC4	Mechanism control	Drives the cassette mechanism based on the control signals
		from the Slave microprocessor.
IC5	Pocket motor driver	Drives the pocket motor.
IC6	Electronic VR	Electronic VR for tone control, loudness, balance and volume.
IC7	Electronic VR (Tone control)	Tone control.
IC8,9	Electronic VR (Buffer)	Buffer,
IC10	Preamp	Output amplifier.
IC11	Preamp	Front-output preamplifier for fader.
IC12	Comparator	Shape the cassette mechanism rotation detection signal.
IC13	Tune select amp	Tune selection control amplifier.
IC14	Reference voltage	Bias voltage for auto-volume ICs,
IC15	Auto-volume	Full-wave rectification for the microphone amplifier and 2nd and 3rd LPF.
IC16	Auto-volume	Logarithmic amplifier buffer.
IC17	Auto-volume	Level-shift buffer.
IC18	Tape equalizer	Tape equalizer amplifier.
Q1,2	Tupo equalizer	Prohibit door open/close at ACC OFF.
Q3	Lamp dienlay	
Q4	Lamp display	Turns the lamp inside the pocket ON/OFF.
Q6	Muting	T0001040 0N
Q7	Motor +B	Turns Q39 and Q40 ON when ACC goes ON.
	Tuner AGC inverter	Used when the tuner pack is attached.
Q9	Tuner LO/DX inverter	
Q10	Inverter	
Q11	Tuner IN	Detects ON/OFF of the external tuner (microprocessor inverter).
Q12,13	P-CON IN	Detects ON/OFF of P-CON (microprocessor level shifting).
Q19~21	Buffer	Buffer for sending tuner PLL data at low impedance.
Q22	Speaker driver	Drives speakers.
Q23 Muting driver		Drives Q50 and Q51.
Q24	Reset	Combined with IC3 and resets the Slave microprocessor.
Q25,26	Reset	Reset switch for the power to IC3 and Q24. Power is turned ON/OFF
		by the reset switch on the panel.
Q30	Remote control	External remote control signal buffer.
Q31	Tuner SD inverter	Used when the tuner pack is attached.
Q32	Tuner ST inverter	Used when the tuner pack is attached.
Ω33,34	Cassette mechanism driver	Drives the cassette mechanism.
Q35~38	Cassette mechanism driver	Amplifies the current for used with the cassette mechanism driver.
Q39	Cassette mechanism +B	In combination with Q6, turns the cassette mechanism +B ON.
Q40	5V	In combination with Q6, turns the pocket motor +B, etc., ON.
Q41	Plunger driver	For holding door plunger.
Q42	Plunger driver	Drives Q41.
Q43	Plunger driver	Drives the door plunger.
Q44	Plunger driver	Drives Q42.
Q46~49	Gain selector	Switches the amplifier output voltage.
Q50,51	Muting	Mutes the output amp.
Q52,53	Muting	Muting,
Q54,55	ACC detector	Detects the rise of ACC above the specified voltage,
		and performs level shifting to 5V.
Q60~62	Tune select sensitivity switch	Changes the time constant during tune selection, playback and FF/REW.



DESCRIPTION OF COMPONENTS

Component	Application/function	Operation/condition/compatibility	
Q63,64 Tracking regulator		Supplies the auto-volume ± power simultaneously.	
Q65	Auto-volume sensitivity switch	Switches the sensitivity of the auto-volume and microphone.	
Ω66	Logarithmic amp	In combination with IC16, functions as an logarithmic amp.	
Q67	Buffer	Buffer.	
Ω70	Metal switch	Switches between METAL/NORMAL.	
Q71	F/R switch	Switches between F/R.	
Q72	5V AVR	5V AVR for microprocessors, etc.	
Q73	9V AVR	9V AVR for display.	
Q74	5V AVR	Darlington-connected to Q72.	
Q75 9V AVR		Darlington-connected to Q73.	
Ω76	Protector circuit	5V circuitry short-circuiting protection circuit.	
Q77 Protector circuit 9V		9V circuitry short-circuiting protection circuit.	
Q78	Protector circuit	Combined with Q76.	
Ω79	Protector circuit	Combined with Q77.	
Q83,84	9V AVR	9V AVR for audio circuitry.	
Q85 9V AVR Darlington-connected to Q83 and Q84.		Darlington-connected to Q83 and Q84.	
Q86,87		Turns off all lights at ACC OFF.	
Ω88	8V AVR	8V AVR for remote control.	

PANEL ASS'Y (A20-5295-05)

Component	Application/function	Operation/condition/compatibility
IC1,2	Spectrum analyzer/G.EQ display driver	

TUNER UNIT (X05-3390-11)

Component	Application/function	Operation/condition/compatibility
Q1	LO/DX SW	ON for LO, OFF for DX.
Q2	IF amp	Amplification of IF.
Q3	FM S meter output buffer	Eliminates the influence from impedance variation in S meter line.
Q4	AFC SW	ON during reception, OFF during search.
Q5	ANRC cotrol	Discharges CRSC capacitor C11.
Q10	AM S meter output buffer	Eliminates the influence from impedance variation in S meter line.
Q11	FM LPF	Low-pass filter for FM Vt.
Q13,14	AM LPF	Low-pass filter for AM Vt.
Q15	SD inverter SW	ON when SD is present, OFF when not.
Q16	AM +B SW	ON when AM is selected.
Q17	FM +B SW	ON when FM is selected.
Q19	FM L ch buffer	Eliminates disturbance in post-stage LPF characteristics due to IC2
		output impedance.
Q20	FM R ch buffer	Eliminates disturbance in post-stage LPF characteristics due to IC2
To Manager Trans.		output impedance.
Q21	5V AVR	Power supply for IC3.
Q22	9V AVR	9V power supply for audio signal circuitry.
Q23,24	Tuner P.CON SW	ON in Tuner mode.
Q25,26	Muting	Audio output muting.
IC1	FM IF amp/detector	IF amplification, soft muting control, and IF detection.
IC2	Noise canceler and MPX	Noise canceling, ANRC cotrol, L/R demodulation.
IC3	PLL	Digital tuning PLL cotroller. Controlled by the serial data from IC1
		in Power Supply unit (X25-3010-11).
IC4	Active LPF	Eliminates pilot and subcarrier components by cutting frequencies above 15kHz.
IC5	Output amp	Buffer amplifier for supplying tuner output to the main unit.



MASTER MICROPROCESSOR 75018G-599-1B

1. General

This microprocessor has been designed mainly for use with car receivers, and controls the cassette deck section and also the tuner section using an external PLL.

This microprocessor operates in combination with Slave microprocessor 7507HG-517-22 which controls the cassette mechanism.

2. Outline of Functions

2-1. Cassette deck section

- Tune selection
- Tune selection by skipping up to 9 tunes in forward/ backward direction using T.ADV (with digital display).
- Repeat playback which allows to play the same tunes several times
- Index scanning which plays the first 10 seconds of all tunes in a tape.
- Blank skipping, with which cuing starts when a nonrecorded blank has lasted for more than 15 seconds.
- Auto tuner call facility activates the tuner automatically during tape FF and REW operations.
- Dolby B/C switches.
- dbx switch.
- 9-point remaining tape indicator.
- 7-point running indicator and running direction indicator
- Cassette standby facility starts tape playback automatically when the station being received by the tuner becomes weak.

2-2. Audio section

The Volume, Balance, Bass, Treble and Fader are controlled using electronic VR TC9188F. The volume indicator is a 9-point, 2-digit digital display, and independent 7-point indicators are also provided for other functions. The Loudness is also controlled using an electronic VR.

- Muting reduces the audio volume by 20dB in an instant.
- O Volume UP/DOWN with two speeds.
- Auto-volume facility always provides a constant feeling of volume to the user according to the external noise level (with load noise level meter).

2-3. Tuner section

Clock function

12-hour display with AM/PM indication omitted.

Station selection

- Manual tuning: With step-by-step scanning or fast scanning by pressing the pushbutton switch.
- Auto tuning 1: The station is held once it is tuned in.
- Auto tuning 2: Preset stations can be searched upward or downward.

Preset station memory

 5 memory buttons are provided for storing 5 stations per band, i.e. a total of 20 stations.

Memory facility

 Any station can be stored in the preset station memory by pressing the MEMORY switch then one of preset buttons 1 to 5.

Last-channel memory

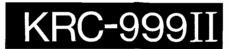
 The last station which has been received is stored in memory for each band.

Auto memory

O Up to 5 receivable stations can automatically be searched and stored in the preset memory by pressing the the MEMORY switch then the UP switch. This upward seeking operation continues until all frequencies in the band have been scanned once, and the operation stops when the station stored in Preset 1 is received again. The operation is indicated by the preset indicator " \(\text{\tex{

Frequencies

Destination	Receivable Frequency Range	Channel Space ()→manual tuning	Compared Frequency	IF
11.6	FM 87.9~107.9MHz	200kHz (200kHz)	25kHz	+10,7MHz
U.S.	AM 530~1620kHz	10kHz (10kHz)	10kHz	+450kHz
lonon	FM 76.1~89.9MHz	100kHz (100kHz)	25kHz	-10.7MHz
Japan	AM 522~1629kHz	9kHz (9kHz)	9kHz	+450kHz
General market	FM 87.9MHz~107.9MHz	100kHz (100kHz)	25kHz	+10.7MHz
General market	AM 522~1611kHz	9kHz (9kHz)	9kHz	+450kHz



2-4. Graphic equalizer (G.EQ) section

The microprocessor itself does not include the G.EQ function. However, it has the G.EQ operation mode as well as the Tape and Tuner modes, and the key inhibit signal is output in the Tape and Tuner modes.

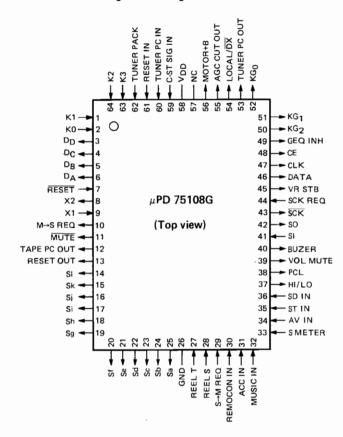
The G.EQ is controlled using a general-purpose microprocessor manufactured by Sanyo. This microprocessor has independent frequency select switches. As these switches are set to correspond to the UP/DOWN switch of our microprocessor, turning the UP/DOWN switch ON turns the frequency select switches ON so the frequencies can be selected. The following G.EQ functions are incorporated in the G.EQ control microprocessor.

- o 7-band spectrum analyzer display.
- O 5 preset equalizer curves.
- 2dB steps ±12dB variation (±10dB variation is also possible).

Note: When UP or DOWN is pressed in other timing than when the set point is flashing (indicating setting standby), the UP SW starts with f1 and DOWN SW with f7. Therefore, if there is no input for 5 seconds, the starting frequency is either f1 or f7.

3. Terminal Description

3-1. Terminal configuration diagram





3-2. Terminal description table

Pin No.	Symbol	Terminal Name	Description	
1,2,	K0~K3	Key return signal inputs	Input terminals for return signal from the Dynamic key matrix.	
63,64			Each terminal is connected to a pull-down resistor.	
3~6	DA~DD	Digit outputs	Sources of key-return and display signals.	
			The 4-bit BCD output from μ PD4028D are converted into 10 digits.	
7	RESET	Reset input	Microprocessor initialization terminal.	
			The microprocessor executes initialization when it turns from "H" to "L".	
8,9	X2,X1	X'tal oscillator	X'tal oscillator connection terminals (4.5MHz).	
10	M→S REQ	M→S request signal	Communication request signal from the Master to Slave.	
11	MUTE	Muting output	Output signal for muting shock noise occurring during PLL or mechanism	
			operation. Active "L".	
12	TAPE PC OUT	Tape power control output	Outputs P-CON signal during tape transport. Used as the TAPE PC OUT terminal	
			for controlling both the signal system and PC. Basically goes "H" when a tape	
			inserted. However, the level may go "L" during TUNER CALL.	
13	RESET OUT	Mutual reset terminal	Output signal performing mutual resetting to the set in the previous stage.	
14~25	Sa~SI	Segment signal outputs	Segment output signals.	
26	GND	Ground	Connected to the ground.	
27	REELT	Reel pulse detector	Detects the forward reel pulse.	
28	REELS	Reel pulse detector	Detects the reverse reel pulse.	
29	S→M REQ	S→M request signal	Communication request signal from the Slave to Master.	
30	REMOCON IN	Remote control input	Detects the signal sent through the light receiver.	
31	ACC IN	ACC detector	Input terminal which detects the Accessory switch position. "L" for backup mode.	
32	MUSIC IN	Music detector	Detects if music signal is present. Active "H".	
33	S METER	Signal meter detector	Divides 0 to 5V (VDD) in 8 sections (0.625V each) and	
			detects the field intensities.	
34	AVIN	Auto volume detector	Divides 0 to 5V (VDD) in 16 sections (0.3125V each) and	
		1	detects the external noise levels.	
			Detects whether the present broadcast is stereo, and inputs "H" when receiving	
			a stereo broadcasting station. Even when the ST detection signal is "H",	
			the display is turned OFF under the following conditions:	
35	ST IN	Stereo input signal	o With A CC CUT autout	
			• With AGC CUT output.	
		İ	o When SD detection is "L".	
			o In MW band.	
36	SDIN	SD input signal	During auto tuning (UP SEEK/DOWN SEEK and auto memory), detects whether	
			a broadcasting station is received, and inputs "H" when a station is received.	
37	HI/LO	AV High/Low switch	Switches the auto-volume sensitivity.	
38	PCL	Reference frequency output	Reference output for X'tal deviation adjustment (1.05MHz).	
39	VOL MUTE	Volume muting output	"H" when the volume data is $-\infty$.	



Pin No.	Symbol	Terminal Name	Description	
			Operation buzzer output terminal which outputs two types of square waves.	
			①	
40	. BUZER	Buzzer output	②	
			 Buzzer sound (1) beeps in the following cases: When all audio circuitry switches are ON. When tape circuitry switches are ON in Tape mode. During forward loading or inversion from reverse to forward. When tuner circuitry switches are ON in Tuner mode. Buzzer sound (2) beeps in the following cases: During reverse loading or inversion from forward to reverse. 	
41	SI	Serial input	Input terminal for serial data from the Slave microprocessor.	
42	SO	Serial output	Output terminal for serial data to the Slave microprocessor.	
43	SCK	Serial clock	Output terminal for serial clock to the Slave microprocessor. Active "L".	
44	SCK REQ	Clock request signal	Input terminal for serial clock request from the Slave microprocessor.	
45	VR STB	Volume strobe	Output terminal for strobe signal to the electronic VR (TC9188F).	
46	DATA	Data output	Output terminal for data to the electronic VR (TC9188F) and external PLL (LM7001).	
47	CLK	Clock signal	Output terminal for clock to the electronic VR (TC9188F) and external PLL (LM7001).	
48	CE	Chip enable	Chip enable output to the external PLL (LM7001).	
49	GEQ INH	Graphic equalizer inhibit signal	Output terminal for inhibiting the G.EQ key-matrix. "H" when ACC is OFF.	
50~52	KG0~KG2	Graphic equalizer	Output terminal for ON signals to the frequency select keys of the G.EQ. The keys for the 7 bands are turned ON with a simulative method using the 3-bit BCD output from μ PD4028B.	
53	TUNER PC OUT	Tuner power control output	"H" when the tuner is ON and the signal circuitry is switched to the tuner. However, both TUNER PC and TAPE PC are "H" during tuner call.	
54	Local/DX	Local/de-luxe switching output	Output terminal for receiving only local stations or not.	
55	AGC CUT OUT	AGC CUT output	AGC CUT output terminal.	
56	MOTOR +B	Motor power supply signal	Output terminal for motor power ON/OFF signal.	
57	NC	NC	Not connected.	
58	VDD	Power supply terminal	Device power supply terminal. When the terminal rises from 0V to 5V \pm 10%, the microprocessor performs the power-on resetting internally, and all conditions are initialized.	
59	C-ST SIG IN	C-ST signal detector	External tuner field strength detector terminal.	
60	TUNER PC IN	Tuner power control detector	External tuner power control detector terminal.	
61	RESET IN	External input detector	Detects the power control of the external set such as a CD player or DAT player.	
62	TUNER PACK	Tuner pack detector	Detects if the tuner pack is present.	



SLAVE MICROPROCESSOR 7507HG-517-22

1. General

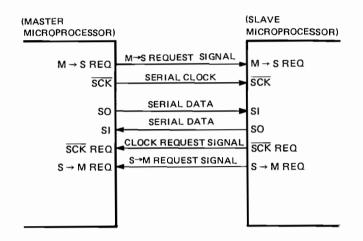
This microprocessor is used to control the cassette mechanism (D40-0341-05) based on the instructions from the Master microprocessor. In addition to the mechanism control, the Slave microprocessor also performs:

- Slide pocket control (ON/OFF using diode switch).
- Door shutter control (ON/OFF using diode switch).
- Control outputs for Dolby, dbx, reproduce equalizer time constant switching and reproduce amplifier switching (based on the data from the Master).

The Master microprocessor gives instructions to the Slave microprocessor by serial data transmission. The microprocessors are connected via six signal lines.

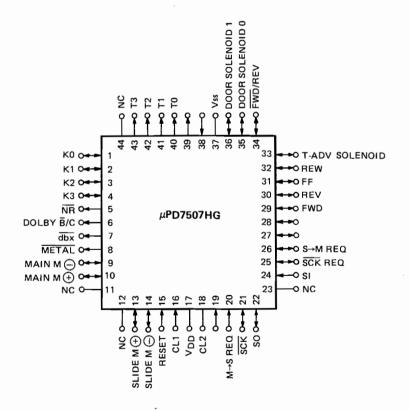
2. Data Communications

For the data communications, refer to the description of the Master microprocessor.



3, Terminal Description

3-1. Terminal configuration diagram





Pin No.	Symbol	Terminal Name	Description	
1~4 KO~K3 Key return signal inputs Input termina		Key return signal inputs	Input terminals for return signal from the Dynamic key matrix.	
			Each terminal is connected to a $3.3k\Omega$ pull-down resistor. Active "L".	
5	NR	NR ON/OFF signal output	Dolby B or C ON/OFF control signal output. Active "L".	
6	DOLBY B/C	Dolby B/C switching	Dolby B/C switching signal output. "H" for C, "L" for B.	
7	dbx	dbx ON/OFF signal	dbx ON/OFF control signal. "L" for ON, "H" for OFF.	
8	METAL	NORMAL/METAL	Output for switching the time constant of the tape reproduce equalizer.	
		switching signal	"H" for NORMAL, "L" for High position.	
9	MAIN, M.	Mechanism main motor	Controls the reverse rotation of the main motor of the mechanism.	
	O	reverse rotation control	Active "H".	
10	MAIN. M.+	Mechanism main motor	Controls the forward rotation of the main motor of the mechanism.	
		forward rotation control	Active "H".	
11,12	NC	NC	Not connected,	
13	SLIDE M.(+)	Slide pocket motor	Controls ON/OFF of the slide pocket motor rotation in the OPEN direction.	
	O	forward rotation control	Active "H",	
14	SLIDE M.	Slide pocket motor	Controls ON/OFF of the slide pocket motor rotation in the CLOSE direction.	
	0	reverse rotation control	Active "H".	
15	RESET	Reset input	Microprocessor resetting input. Active "H".	
16	CL1	External clock input	Connection terminal for the X'tal system clock oscillator.	
17	VDD	Power supply	Power supply input.	
18	CL2	External clock	Connection terminal for the X'tal system clock oscillator.	
19	_	_	Not connected.	
20	M→S REQ	Master→Slave communi-	Communication request input from the Master microprocessor.	
İ		cation request input	Active "H".	
21	SCK	Serial clock	Serial clock input from the Master microprocessor.	
22	so	Serial data output	Serial data output terminal,	
23	NC	NC	Not connected	
24	SI	Serial data input	Serial data input terminal.	
25	SCK REQ	Serial clock request	Serial clock request output to the Master microprocessor. Active "H".	
26	S→M REQ	Slave→Master communi-	Communication request output to the Master microprocessor.	
		cation request output	Active "H".	
27,28	NC	NC	Not connected,	
29	FWD	Assist motor FWD output	Controls the FWD-direction rotation of the assist motor used for the	
			forward/reverse movement of the mechanism head. Active "H".	
30	REV	Assist motor REV output	Controls the REV-direction rotation of the assist motor used for the	
			forward/reverse movement of the mechanism head. Active "H".	
31	FF	Assist motor FF output	Controls the FF-direction rotation of the assist motor of the	
			FF/REW gear of the mechanism. Active "H".	
32	REW	Assist motor REW output	Controls the REW-direction rotation of the assist motor of the	
			FF/REW gear of the mechanism. Active "H".	
33	T.ADV	T.ADV solenoid	Controls the T.ADV solenoid of the mechanism.	
	SOLENOID	control output	Active "H".	
34	FWD/REV	Equalizer amp switching	Controls the FWD/REV switching of the equalizer amp.	
		control output	"H" for REV, "L" for FWD.	
35	DOOR	Door open solenoid drive	Drives the door shutter opening/closing solenoid.	
	SOLENOID 0			
36	DOOR	Door open solenoid drive	Holds the door shutter opening/closing solenoid.	
	SOLENOID 1			
37	GND	Ground	Grounding terminal.	
38,39	_		Not connected.	
10~43	T0~T3	Key scanning	Output terminals of 4X4 key matrix scanning signal. Active "L"	
44	NC	NC NC	Not connected	

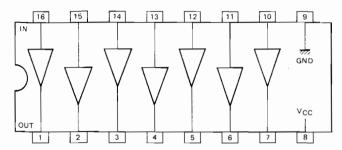
KRC-999II

SEMICONDUCTOR DATA

1. Segment Driver

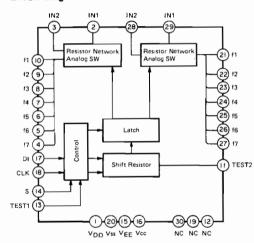
BA618F: X13-5730-11, IC11, IC12

Block diagram



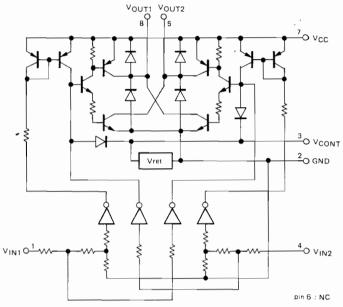
2. Electronic VR for Graphic Equalizer LC7523M: X13-5730-11, IC2

Block diagram



4. Pocket Motor Driver LB1630: X25-3010-11, IC5

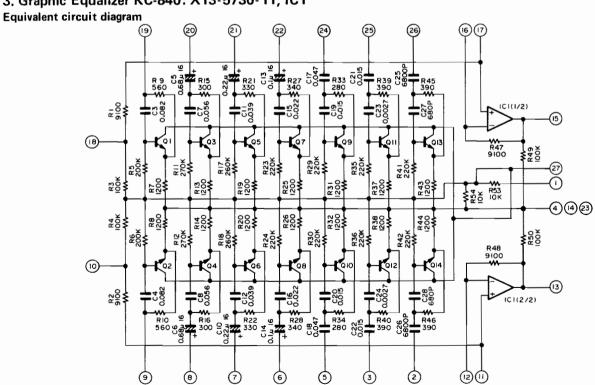
Equivalent circuit diagram



Truth value table

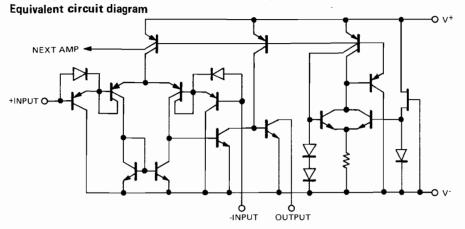
IN1(1) .	IN 2 (4)	OUT 1 (8)	OUT 2 (5)	MOTOR
Н	L	Н	L	FORWARD ROTATION
L	Н	L	Н	REVERSE ROTATION (CLOSE)
Н	Н	OFF	OFF	STANDBY
L	L	OFF	OFF	STANDBY

3. Graphic Equalizer KC-840: X13-5730-11, IC1

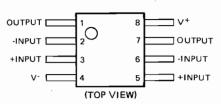




5. Comparator NJM2903M: X25-3010-11, IC12



Terminal configuration diagram



6. Tape Equalizer TA7705F: X25-3010-11, IC18 General

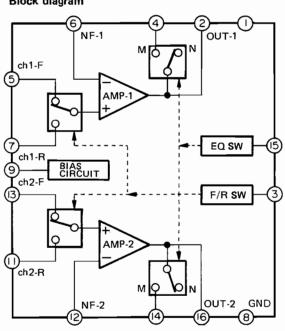
The TA7705F is a dual preamplifier exclusively designed for auto-reverse tape deck of car stereo.

The IC incorporates a 2-channel amplifier with an electronic switch for FWD/REV switching and an electronic switch for switching between two equalizing systems (e.g. Normal/Metal).

Features

- One single FWD/REV electronic switch allows to switch between the two channels.
- One single 2-system equalizer electronic switch allows to switch between two channels.
- High-gain dual preamplifier: GVO = 98dB (typical) (Vcc = 9V, f = 1kHz)
- The device does not need any input coupling capacity circuit.
- Low noise: $VNI = 0.9\mu Vrms$ (typical) (Rg = 600Ω , BW = 20Hz to 20kHz, NAB EQ)
- Operation power voltage: Vcc(opr) = 6 to 16V

Block diagram



Electrical characteristics

Item	Symbol	Measuring Condition	Minimume	Typical	Maximum	Unit
Supply current	ICCQ (1)	VIN = 0, Normal EQ	_	5.0	_	mA
in no-signal period	ICCQ (2)	VIN = 0, Metal EQ	_	6.0	9.0	IIIA
Open-loop voltage gain	GVO	$Cf = 100 \mu F$, $Rf = 0$	_	98	_	dB
Max, output voltage	VoM	THD = 0.5%	1.5	2.0	_	Vrms
Total harmonic distortion	THD	VOUT = 0.5Vrms	-	0.035	0.12	%
Noise voltage converted to input	VIN	Converted with the gain at Rg = 620Ω , BW = $20 \sim 20$ kHz, f = 1kHz	_	0.9	1.7	μ Vrms
Input resistance	RIN		_	500	_	kΩ
Rîpple elimination ratio	R,R	f ripple = 100Hz, VIN = 1Vrms	_	55	_	dB
Crosstalk	C.T	VOUT = 0dBm	50	60	_	dB
Forward/reverse crosstalk	C.T (F/R)	VOUT = 0dBm	60	70	_	dB

Unless otherwise specified, VCC = 9V, f = 1kHz, RL = $10k\Omega$, Rg = 600Ω , Ta = 25° C, Normal EQ



7. Electronic VR TC9188F: X25-3010-11, IC6

General

The TC9188F is an electronic VR system incorporating the VRs required for the Volume, Balance, Fader, Bass, Treble and loudness controls on a monolithic chip.

The VRs are selected and controlled as desired by applying the specified serial data.

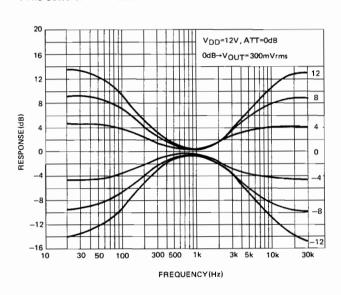
Volume: 0 to -79dB (1dB/step) Fader: 0 to -60dB (16 steps)

Tone: +12dB for both Bass and Treble (2dB/step)

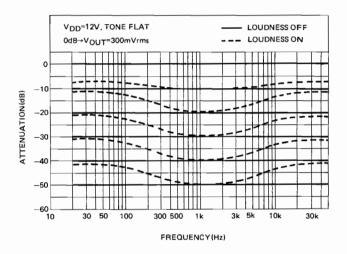
Loudness:

- The IC can be interfaced directly with the microprocessor because the logic level at the serial data input terminals is 0 to 5V.
- The C-MOS structure enables wide operation voltage range and low current consumption.

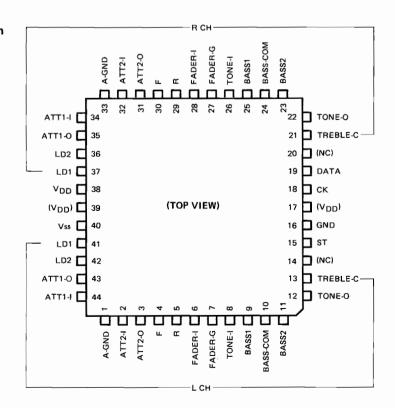
Reference diagrams Tone control characteristic



Loudness characteristic



Terminal description Terminal configuration diagram





Terminal description table

Connect pins 17 and 39 to the VDD terminal (pin 38).

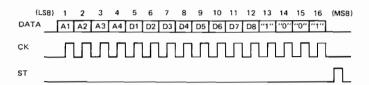
Pin No.	Symbol	Function Description	Note
1 (L)	A-GND	Analog grounding terminals.	
33 (R)			
2 (L)	ATT2-IN	1dB step attenuator input terminals.	43/35 〇
32 (R)			
3 (L)	ATT2-OUT	1dB step attenuator output terminals.	44/34 O
31 (R)		The signals applied to ATT2-IN are attenuated by	1/33 〇
		0 to -9dB in ten 1-dB steps.	
43 (L)	ATT1-OUT	10dB step attenuator output terminals.	2/32 🔾
35 (R)		The signals applied to ATT1-IN are attenuated by	
		0 to -70dB in eight 10-dB steps.	3/31 O
44 (L)	ATT1-IN	10dB step attenuator input terminals.	
34 (R)			
4 (L)	F	Fader control front output terminals.	6/28 ATT2-0UT
30 (R)			
5 (L)	R	Fader control rear output terminals.	7/27
29 (R)			
6 (L)	FADER-IN	Fader control input terminals.	2929
28 (R)			4/30
7 (L)	FADER-GND	Fader control attenuator grounding terminals.	5/29
27 (R)			O
8 (L)	TONE-IN	Tone control input terminals.	0.000
26 (R)			0 8/26
9 (L)	BASS1	Bass tone control tap terminals.	_
25 (R)			9/25
10 (L)	BASS-COM	Common terminals for Bass tone control VR.	
24 (R)			10/24 13/21 O > Q
11 (L)	BASS2	Bass tone control tap terminals.	11/23
23 (R)			
12 (L)	TONE-OUT	Tone control output terminals.	* *
22 (R)			
13 (L)	TREBLE-COM	Common terminals for Treble tone control VR.	Ó 12/22
21 (R)		_	
14 (L)	NC	Terminals to be opened or connected to GND.	
20 (R)			
15	ST	Input terminal of strobe signal for switching to read control data.	Logic level is from
		ST, and CK DATA are low-threshold inverter inputs.	0 to 5V because the
18	CK	Input terminal of clock signal for reading control data.	low-threshold inverters are built in.
19	DATA	Control data input terminal.	nitorio de de de de de de de de de de de de de
41 (L)	LD1	Loudness network connection terminals.	
37 (R)			
42 (L)	LD2		
36 (R)			
16	GND	Power connection terminals.	
38	VDD		
40	VSS		



Function description

Data format

The TC9188F can be controlled as desired using data from the controller. The data consists of 16 bits.



1) A1~A4 (bits 1~4)

Data bits 1 to 4 are used to select the L Volume, R Volume, Bass, Treble or Fader VR.

	A1	A2	А3	Α4
Volume (L)	L	L	L	Н
Volume (R)	Н	L	L	Н
Bass	L	Н	L	Н
Treble	Н,	Н	L	Н
Fader	L	L	Н	н

2) D1~D8 (bits 5~12)

Data bits 5 to 12 select the control step of the selected VR. The Bass and Treble controls uses only D1 to D4, and the Fader control uses only D1 to D4 and D8.

2-a) Volume L/R

When the Volume L/R control is selected by data bits 1 to 4 (A1 to A4), data bits 5 to 12 (D1 to D8) define the volume attenuation data. D1 to D4 are for ATT2 with 1dB/step, and D5 to D8 are for ATT1 with 10dB/step.

2-b) Loudness

Data D8 in the Volume L data is the loudness ON/OFF data. Loudness is ON when D8 is "H", and OFF when it is "L". Loudness is turned ON/OFF simultaneously for the L and R channels. Data D8 in the Volume R data has no function and can either be "L" or "H".

2-c) Tone control (Bass, Treble)

When Bass/Treble is selected with data bits 1 to 4 (A1 to A4), data bits 5 to 8 (D1 to D4) defines the tone control data. The tone control data are set independently for Bass and Treble, but the L and R data cannot be set independently.

D1	D2	D3	D4	
L	Н	Н	L	+ 12dB
Н	L	Н	L	+ 10dB
L	L	Н	L	+ 8dB
Н	Н	L	L	+ 6dB
L	Н	L	L	+ 4dB
Н	L	L	L	+ 2dB
L	L	L	L	0dB
Н	Н	Н	Н	_ 2dB
L	Н	Н	Н	- 4dB
Н	L	Н	Н	- 6dB
L	L	Н	Н	- 8dB
Н	Н	L	Н	- 10dB
L	Н	L	Н	- 12dB

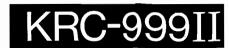
Note: Other data combinations than above may make the volume steps unstable.

D1	D2	D3	D4	ATT2
L	L	L	L	0dB
Н	L	L	L	-1dB
L	Н	L	L	-2dB
H	Н	L	L	-3dB
L	L	Н	L	-4dB
H	L	Н	L	-5dB
L	Н	Н	L	-6dB
H	Н	Н	L	-7dB
L	L	L	Н	-8dB
H	L	L	I	-9dB
L	Н	L	Н	-∞

D5	D6	D7	D8	ATT1
L	L	L	*	0dB
Н	L	L	*	- 10dB
L	Н	L	*	-20dB
Н	Н	L	*	-30dB
L	L	Н	*	-40dB
Н	L	Н	*	-50dB
L	Н	Н	*	-60dB
Н	Н	Н	*	-70dB

* Loudness

Note: Other data combinations than above may make the volume steps unstable.



2-d) Fader

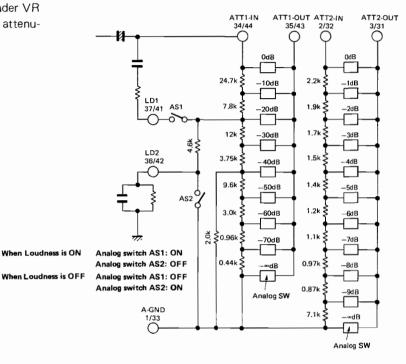
When Fader is selected with data bits 1 to 4 (A1 to A4), data bits 5 to 8 (D1 to D4) defines the fader VR data for attenuating the front or rear-volume. Only one VR is used for L and R, and whether the attenuation is applied to the front or rear is selected by data bit 12 (D8). The fader VR attenuates the front volume when D8 is "H", and attenuates the rear volume when it is "L".

D1	D2	D3	D4	
L	L	L	L	0dB
Н	L	L	L	– 2dB
L	Н	L	L	- 4dB
Н	Н	L	L	- 6dB
L	L	H	L	- 8dB
Н	L	Н	L	- 10dB
L	Н	Н	L	- 12dB
Н	Н	Н	L	- 14dB
L	L	L	Н	- 16dB
Н	L	L	Н	- 18dB
L	Н	L	Н	- 20dB
Н	Н	L	Н	- 26dB
L	L	Н	Н	- 35dB
Н	L	Н	Н	- 45dB
L	Н	Н	Н	- 60dB
Н	Н	Н	Н	– ∞dB

Explanation of each VR block

The VRs consist of diffused resistor arrays and analog switches.

1) Volume block, Loudness



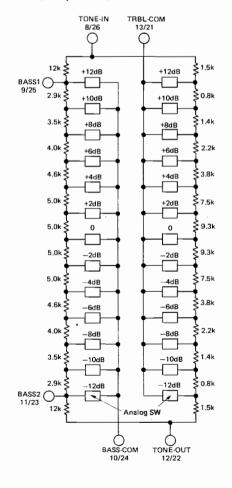
3) Code bits (bits $13 \sim 16$)

Data bits 13 to 16 are the code bits for the TC9188F. Data having different code from the following is not accepted.

Data bit

15	14	15	16
Н	L	L	Н

2) Tone control (Bass, Treble) block

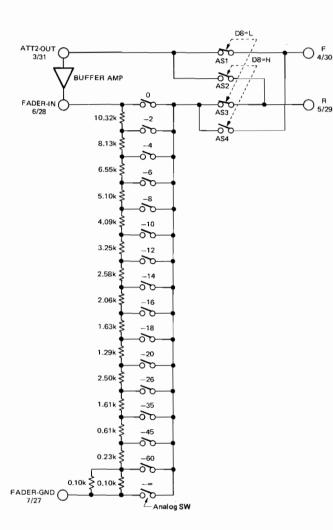




3) Fader block

When D8 in the Fader control data is "H", analog switches AS2 and AS4 turn ON so that the fader VR attenuates the front volume.

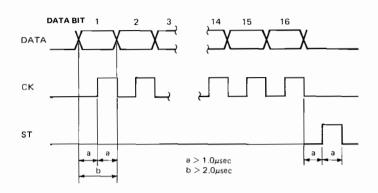
When D8 is "L", analog switches AS1 and AS3 turns ON so that the fader VR attenuates the rear volume.



D8	OUTPUT			
""	F ← ATT2-OUT			
"0"	R ← FADER-VR			
"1"	F ← FADER-VR			
	B ← ATT2-OUT			

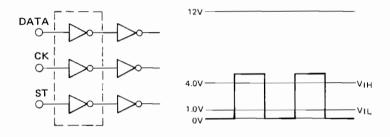
• Timing of CK, DATA and ST inputs

CK, DATA and ST shall be input with the following timing.



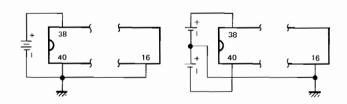
• CK, DATA and ST inputs

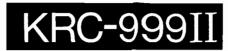
The CK, DATA and ST inputs incorporate low-threshold inverters so that they can operate at the TTL logic level of 0 to 5V even when VDD = 12V is used.



Power supply circuitry

The TC9188F normally uses one power source, but can also be powered from two power sources. Even in this case, CK, DAT and ST can operate at the TTL logic level of 0 to 5V justlike when using one power source.



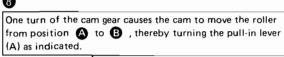


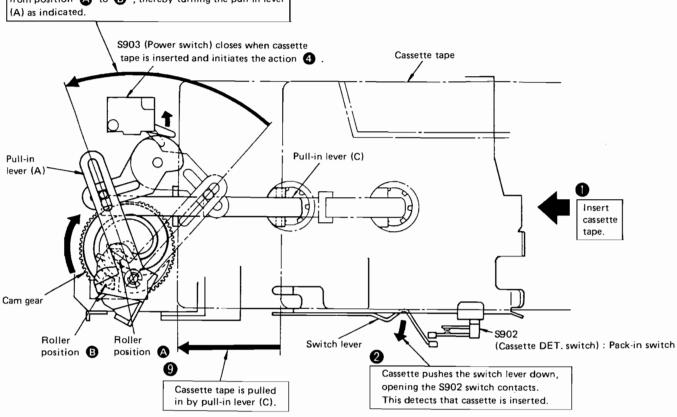
1. Loading Mechanism

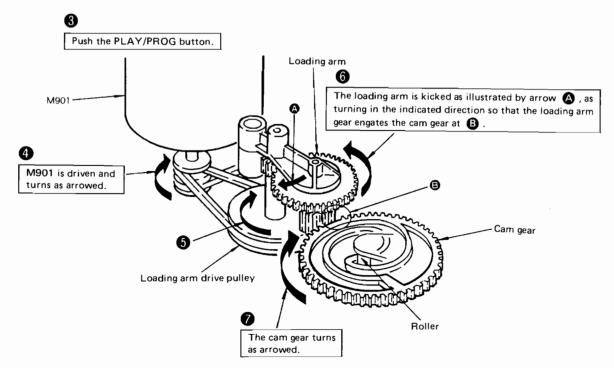
This mechanism provides an automatic cassette loading capability. That is, inserting a cassette into the entrace slit and then pushing the PLAY/PROG button (or softly push-

ing the cassette further in) causes it to be automatically loaded and played.

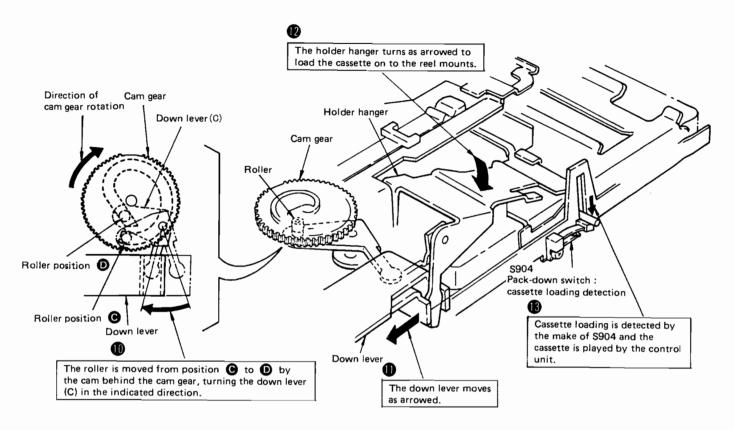
This function is described below.





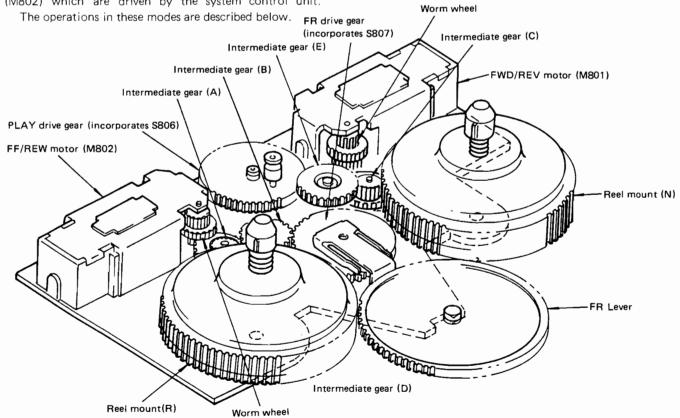






2. Mode Operations

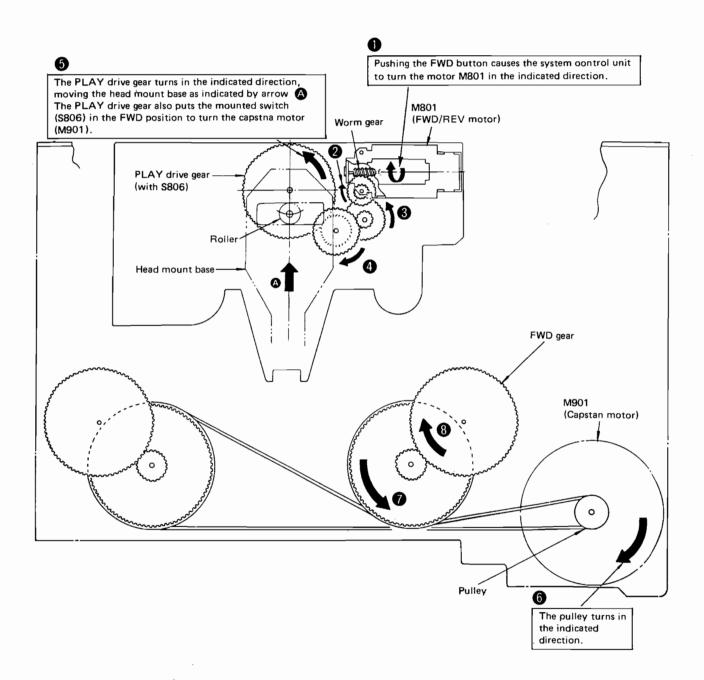
This unit accomplishes switching between modes throught the FWD/REV motor (M801) and FF/REW motor (M802) which are driven by the system control unit.



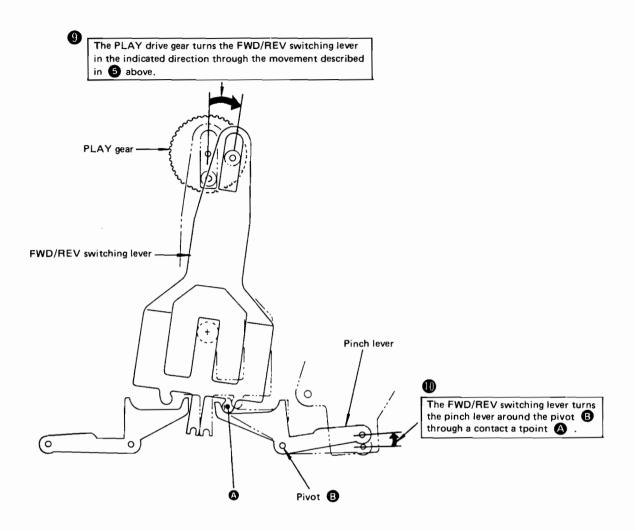


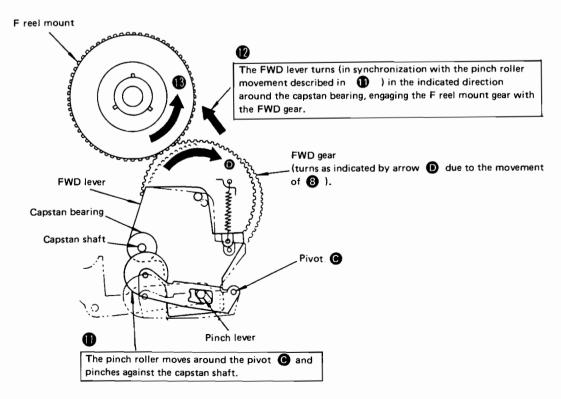
1. Forward (FWD) Mode

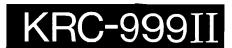
When this mode is entered, the mechanism operates in the sequence from 1 to 13 in the following illustrations





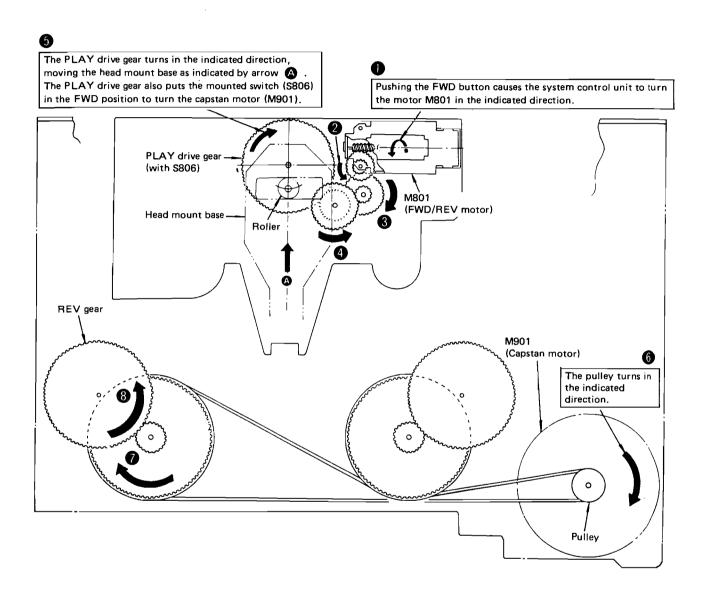




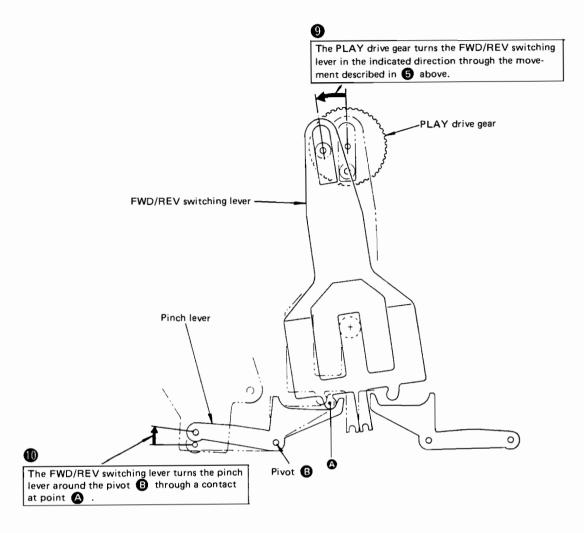


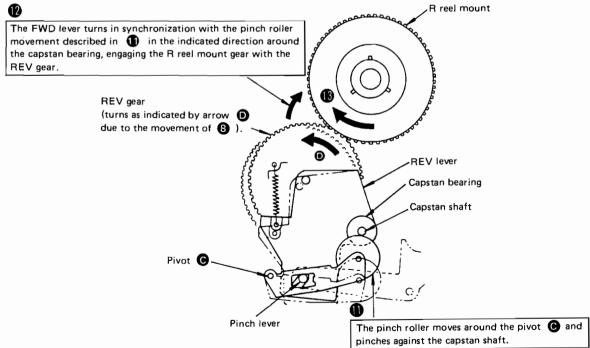
2. Reverse (REV) Mode

When this mode is entered, the mechanism operates in the sequence from 1 to 13 in the following illustrations.



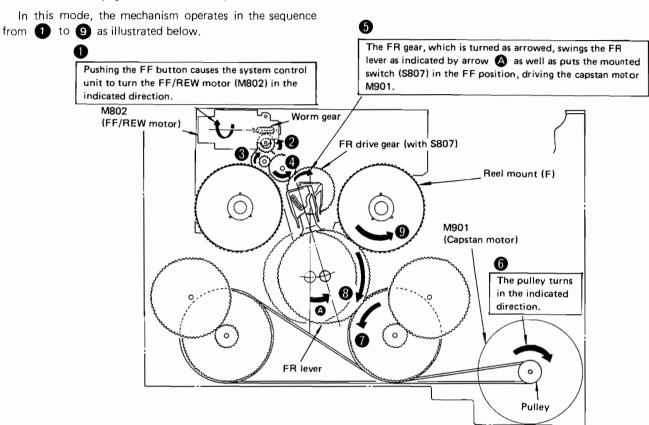




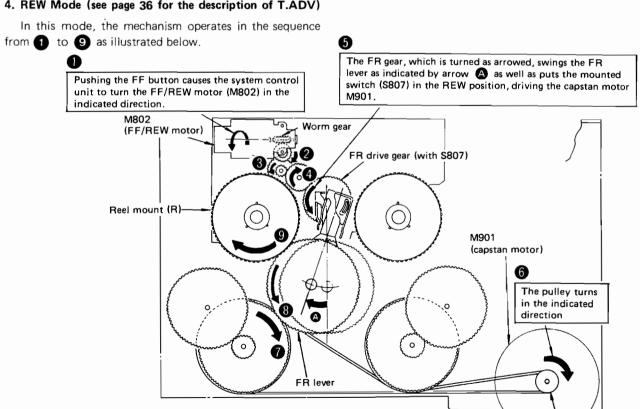




3. FF Mode (see page 36 for the description of T.ADV)



4. REW Mode (see page 36 for the description of T.ADV)





5. Tape Advance (T.ADV) Mode

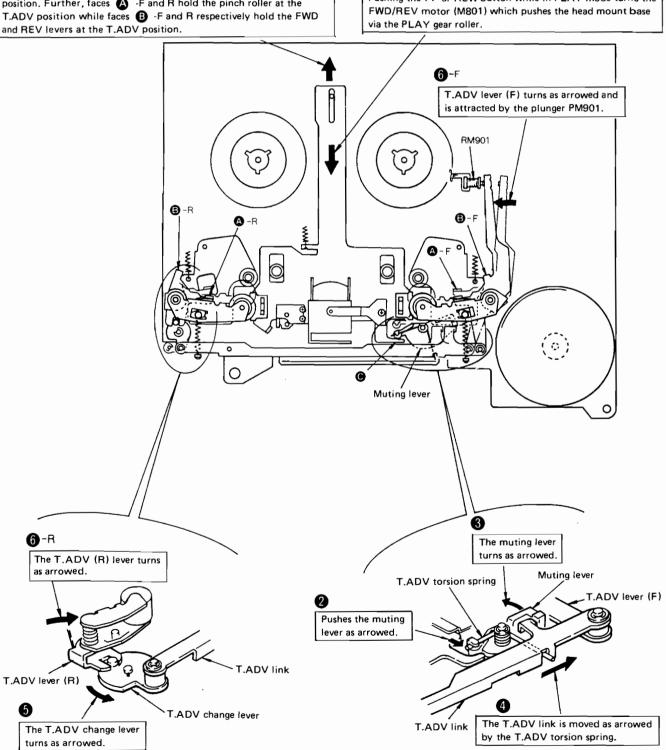
Selecting either FF or REW mode while in PLAY mode causes a plunger (PM801) to put the unit in T.ADV mode.

The sequence of events in this mode shift is described



The FWD/REW motor is driven to put the unit in PLAY mode again, and the head mount base is moved in the indicated direction until point 6 hits the muting lever so that the head is placed at the T.ADV position. Further, faces A -F and R hold the pinch roller at the T.ADV position while faces B -F and R respectively hold the FWD

Pushing the FF or REW button while in PLAY mode turns the FWD/REV motor (M801) which pushes the head mount base





ADJUSTMENT

Set the controls and switches as follows.

BALANCE :Center position TUNING :AUTO DOLBY NR :OFF
FADER :Center position T • ADV :OFF ATT :OFF
EQ :Flat position METAL :OFF dbx :OFF

		LNDUT	OUTDUT	RECEIVER	AL LONGENT		_
No.	1 TEM	INPUT SETTINGS	OUTPUT Settings	SETTINGS	ALIGNMENT Points	ALIGN FOR	FIG.
F M		Selector:		SETTINGS	101813	ALIGN FOR	riu.
r M	SECTION	(A)	r m				1
			0	FM	т.		
	DIOODININATOD	98.1MHz	Connect a DC	1	T1 .	0.77	
1	DISCRIMINATOR	0 dev	voltmeter to CN1.	98.1MHz	(X05-)	OV	(a)
		60dBμ V(ANT input)	(X05-)				
		(B)				Minimum crosstalk.	1
		98.1MHz				A compromise adjutment	
		1kHz,±68.25kHz dev		FM	VR4	may be required if	
2	SEPARATION	Selector:L or R	(D)	98.1MHz	(X05-)	left-to-right and	1
		Pilot: ±6.75kHz dev				right-to-left separations	
		60dBµV(ANT input)				are unequal.	
	_	(B)					
		98.1MHz					
		1kHz, ±68, 25kHz dev		FM	VR1	1	
3	ANRC	Selector:L or R	(D)	98.1MHz	(X05-)	Separation: 10dB	
3	ANKC		(Ψ)	30,1MHZ	(409-)	Separation: IUdb	
		Pilot:±6.75kHz dev					
		35dBμV(ANT input)					
		(A)					
		98.1MHz	TP1	FM	VR2		
4	STOP LEVEL	1kHz,±75kHz dev	(X05-)	98.1MHz	(XO5-)	TP1:0V	
		20dBµV(ANT input)					
		(A)				Output Noise level	
		98.1MHz		FM	VR3	-25dB	
5	SOFT MUTE LEVEL	1kHz,±75kHz dev	(D)	98.1MHz	(X05-)	(When not add any signal	
J	SOLI MOID PRINT		())	JO, 1 MILE	(100)	to ANT terminal.)	
		60dBμV→No input				to ANI terminal.)	\vdash
		(A)			upa.	B	
		98.1MHz		FM	VR7	Position at which	
6	S-METER	0 dev	S-meter ind.	98.1MHz	(X05-)	all S-meter indicators	
		45dBμV(ANT input)				start to light.	
		After the	ANRC adjustment, per	form the separa	tion.		
A M	SECTION	Selector	: AM				
		(C)					
		999kHz	TP1	AM	VR5		
<1>	STOP LEVEL	400Hz,30% mod	(XO5-)	999kHz	(X05-)	TP1:0V	
		35dBµV(ANT input)	,				
		(C)					
		999kHz		AM	VR6	Position at which	1
<2>	S-METER	400Hz,30% mod	S-meter ind.	999kHz	(X05-)	all S-meter indicators	İ
(2)	2-MEIEV		5-meter ind.	JJJKI12	(100-)	start to light.	
Ó.,	0.01/000.001	74dBµV(ANT input)			<u> </u>	start to light.	
CL	OCK SECTI	ON Power:OFF					_
		İ	Connect				
			a frequency		TCI		
-1-	CLOCK	-	counter to TP1.	-	· (X25-)	1,048.575kHz±25Hz	(p)
			(X25-)				
СА	SSETTE DE	CK SECTION					
			Connect				
			an AC voltmeter		VR1(L)		
[1]	PLAYBACK LEVEL	MTT-150	to TP1.	TAPE PLAY	VR2(R)	245mV	(c)
	I DAIDACK DEVEL	M11 150	(X14-)	TATE TEAT	(X14-)	240#1	(0)
			(114-)		(111)	Adjust so that the output	-
					111		
			(-)		Head	level of the forward and	
[2]	AZIMUTH	MTT-114	(D)	TAPE PLAY	Azimuth	reverse left and right	(d)
		10kHz,-10dB			Screw	channels are all maximum	
					(D40-0341-05)	and identical.	
			Connect				
			a DC voltmeter	TAPE PLAY	VR3		
	dbx	MTT-150	to TP2.	dbx:ON	(X14-)	15 mV	(e)
[3]			(X14-)		()	10	(.,
.[3]	QDX		(n1T /				
		ECTION					
		ECTION	Conrect				
.[3] AM		ECTION	Connect		VD.		
A M	PLIFIER S	ECTION	an oscilloscope		VR1		
		ECTION _		_	VR1 (X25-)	500mV	(f)



REGLAGE

Régler les controles et les boutons comme suit.

BALANCE : Position centre TUNING : AUTO
FADER : Position centre T • ADV : OFF
EQ : Position d'uniformité METAL : OFF DOLBY NR :OFF ATT :OFF dbx :OFF

		REGLAGE DE	REGLAGE DE	REGLAGE DU TUNER	POINTS DE		
N°	ITEM	L'ENTREE	LA SORTIE	(AMPLI-TUNER)	L'ALIGNEMENT	ALIGNER POUR	FIG
SE	CTION MF	Sele	teur: FM				
		(A)	Connecter un				
		98,1MHz	voltmètre CC	FM	TI		
1	DISCRIMINATEUR	0dév	entre à CN1.	98.1MHz	(XO5-)	ov	(a)
		60dBµ V(Entrée ANT)	(X05-)		(/		`"/
		(B)				Diaphone minimale,	<u> </u>
		98,1MHz				Un compromis de réglage	
		1kHz.±68,25kHz dév		FM	VR4	peut être nécessaire si les	
2	CEDADATION	Selecteur: L ou R	(0)	1		'	
2	SEPARATION		(D)	98,1MHz	(X05-)	séparations de gauche	
		Pilote:±6,75kHz dév				ā droite et de droite	
		60dBμV(Entrée ANT)				à gauche sont inégales.	
		(B)					ĺ
		98,1MHz					
		lkHz.±68,25kHz dév		FM	VR1		
3	ANRC	Selecteur: L ou R	(D)	98,1MHz	(X05·)	Séparation:10dB	
		Pilote: ±6,75kHz dév					
		35dBμV(Entrée ANT)				-	
		(A)					
		98.1MHz	TPI	FM	VR2		
4	NIVEAU D'ARRET	1kHz.±75kHz děv	(X05-)	98.1MH2	(X05~)	TP1:0V	
-		20dB # V(Entrée ANT)	((,,,,		
		(A)				Bruit de niveau de sortie	
	NIVEAU DE	98,1MHz		FM	VR3	-25dB	
5	SOFT MUTE	1kHz.±75kHz dev	(D)	98.1MHz	(X05-)	(Sous non correspondance	
J	SOFT MOLE	60dBμV→Entrée No	(1)	30,1MHZ	(x03-)		
						d'antenne.)	
	OWNDADILO	(A)		D)4	147.7	Position à laquelle tous	
	COMPTEUR	98,1MHz	Les indicateurs	FM	VR7	les indicateurs de	
6	DE SIGNAL	Oděv	de compteur de	98,1MH2	(XO5-)	compteur de signal	
		45dBμ V(Entrée ANT)	signal.			commencent à s'allumer.	L
		le réglage ANRC, eff		réglage de sépara	ation.		
SE	CTION MA	$\overline{}$	cteur:AM				_
		(C)				1	
		999kHz	TP1	AM	VR5		
$\langle 1 \rangle$	NIVEAU D'ARRET	400Hz. 30% mod	(XO5-)	999kHz	(X05·)	TP1: OV	
		35dB # V(Entrée ANT)					
		(C)				Position à laquelle tous	
	COMPTEUR	999kHz	Les indicateurs	AM	VR6	les indicateurs de	
(2)	DE SIGNAL	400Hz. 30% mod	de compteur	999kHz	(XO5-)	compteur de signal	
		74dBμ V(Entrée ANT)			(,	commencent à s allumer.	
SE	CTION HOR		r:OFF			Commoncone d S diliquot.	
5 13	TON HOL	I TOWN	Connecteur				
		I					$\overline{}$
	l				(50)		
	HODI OGD		un compteur de		TCI	1 040 5751 5 4055	(1
· I -	HORLOGE	-	un compteur de fréquence à TP1.	-	TC1 (X25-)	1,048.575kHz±25Hz	(b
		-	un compteur de fréquence à TP1, (X25-)	-		1,048.575kHz±25Hz	(b
		- MAGNETPHON	un compteur de fréquence à TP1. (X25-) E	-		1,048.575kHz±25Hz	(b
	CTION DU	- MAGNETPHON	un compteur de fréquence à TP1, (X25-) E Connecteur	-	(X25-)	1.048.575kHz±25Hz	(b
SE	CTION DU	MAGNETPHON	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmêtre CA	Lecture de	(X25-) VR1(G)		
SE	CTION DU	MAGNETPHON	un compteur de fréquence à TP1, (X25-) E Connecteur	Lecture de bande	(X25-)	1,048.575kHz±25Hz	
SE	CTION DU		un compteur de fréquence à TP1. (X25-) E Connecteur un voltmêtre CA	1	(X25-) VR1(G)		(b
SE	CTION DU		un compteur de fréquence à TP1, (X25-) E Connecteur un voltmêtre CA au TP1.	1	(X25-) VR1(G) VR2(D)		
SE	CTION DU		un compteur de fréquence à TP1, (X25-) E Connecteur un voltmêtre CA au TP1.	1	(X25-) VR1(G) VR2(D)	245mV	
SE	CTION DU		un compteur de fréquence à TP1, (X25-) E Connecteur un voltmêtre CA au TP1.	1	(X25-) VR1(G) VR2(D)	245mV Régler en sorte que les	
S E	CTION DU NIVEAU DE LECTURE	MTT-150	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-)	bande	(X25-) VR1(G) VR2(D) (X14-) Vis d'azimut de	245m¥ Régler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de	(6
S E	CTION DU	MTT-150	un compteur de fréquence à TP1, (X25-) E Connecteur un voltmêtre CA au TP1.	bande Lecture de	\(\text{X25-} \) \text{VR1(G)} \text{VR2(D)} \text{(X14-)} \text{Vis d'azimut de} \text{tête}	245mV Régler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux	(6
S E	CTION DU NIVEAU DE LECTURE	MTT-150	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-)	bande	(X25-) VR1(G) VR2(D) (X14-) Vis d'azimut de	245mV Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de	(c
S E	CTION DU NIVEAU DE LECTURE	MTT-150	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-)	bande Lecture de	\(\text{X25-} \) \text{VR1(G)} \text{VR2(D)} \text{(X14-)} \text{Vis d'azimut de} \text{tête}	Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de droite soient tous au	(6
SE [1]	CTION DU NIVEAU DE LECTURE	MTT-150	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmêtre CA au TP1. (X14-)	bande Lecture de	\(\text{X25-} \) \text{VR1(G)} \text{VR2(D)} \text{(X14-)} \text{Vis d'azimut de} \text{tête}	245mV Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de	(c
SE [1]	CTION DU NIVEAU DE LECTURE	MTT-150	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-) (D)	bande Lecture de bande	VR1(G) VR2(D) (X14-) Vis d'azimut de tête (D40-0341-05)	Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de droite soient tous au	(c
SE[1]	CTION DU NIVEAU DE LECTURE AZIMUTH	MTT-150 MTT-144 10kHz, -10dB	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-) (D) Connecteur un voltmètre CC	bande Lecture de bande Lecture de	VR1(G) VR2(D) (X14-) Vis d'azimut de tête (D40-0341-05)	Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de droite soient tous au maximum et identiques.	(c
SE[1]	CTION DU NIVEAU DE LECTURE	MTT-150	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-) (D) Connecteur un voltmètre CC au TP2.	bande Lecture de bande Lecture de bande	VR1(G) VR2(D) (X14-) Vis d'azimut de tête (D40-0341-05)	Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de droite soient tous au	(c
SE [1]	CTION DU NIVEAU DE LECTURE AZIMUTH	MTT-150 MTT-144 10kHz, -10dB	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-) (D) Connecteur un voltmètre CC au TP2. (X14-)	bande Lecture de bande Lecture de	VR1(G) VR2(D) (X14-) Vis d'azimut de tête (D40-0341-05)	Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de droite soient tous au maximum et identiques.	(c
SE[1]	CTION DU NIVEAU DE LECTURE AZIMUTH	MTT-150 MTT-144 10kHz, -10dB	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-) (D) Connecteur un voltmètre CC au TP2. (X14-) E U R	bande Lecture de bande Lecture de bande	VR1(G) VR2(D) (X14-) Vis d'azimut de tête (D40-0341-05)	Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de droite soient tous au maximum et identiques.	(c
SE[1]	CTION DU NIVEAU DE LECTURE AZIMUTH dbx	MTT-150 MTT-144 10kHz, -10dB	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-) (D) Connecteur un voltmètre CC au TP2. (X14-) E U R Connecteur	bande Lecture de bande Lecture de bande	VR1(G) VR2(D) (X14-) Vis d'azimut de tête (D40-0341-05) VR3 (X14-)	Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de droite soient tous au maximum et identiques.	(c
SE[1]	CTION DU NIVEAU DE LECTURE AZIMUTH	MTT-150 MTT-144 10kHz, -10dB	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-) (D) Connecteur un voltmètre CC au TP2. (X14-) E U R	bande Lecture de bande Lecture de bande	VR1(G) VR2(D) (X14-) Vis d'azimut de tête (D40-0341-05)	Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de droite soient tous au maximum et identiques.	(c
SE[1]	CTION DU NIVEAU DE LECTURE AZIMUTH dbx	MTT-150 MTT-144 10kHz, -10dB	un compteur de fréquence à TP1. (X25-) E Connecteur un voltmètre CA au TP1. (X14-) (D) Connecteur un voltmètre CC au TP2. (X14-) E U R Connecteur	bande Lecture de bande Lecture de bande	VR1(G) VR2(D) (X14-) Vis d'azimut de tête (D40-0341-05) VR3 (X14-)	Règler en sorte que les niveaux de sortie des canaux de l'avance de gauch et de droite et des canaux marchearrière de gauch et de droite soient tous au maximum et identiques.	(c



ABGLEICH

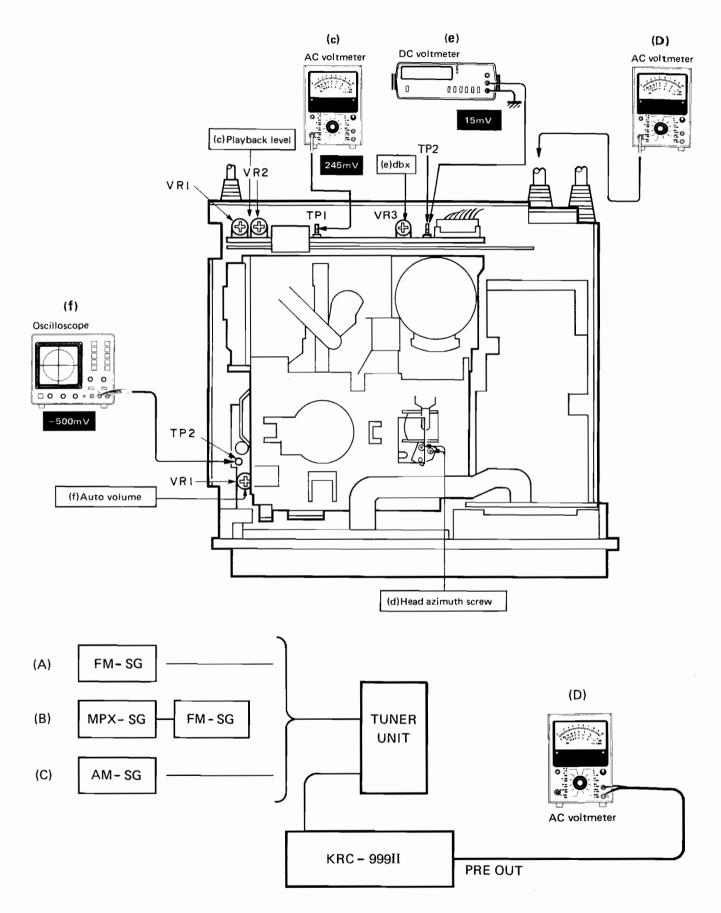
Die Regler und Knöpfe wire folgt einstellen.

BALANCE : Mittelage TUNING : OFF DOLBY NR : OFF FADER : Mittelage T • ADV : OFF ATT : OFF EQ : Linear-Position METAL : OFF dbx : OFF

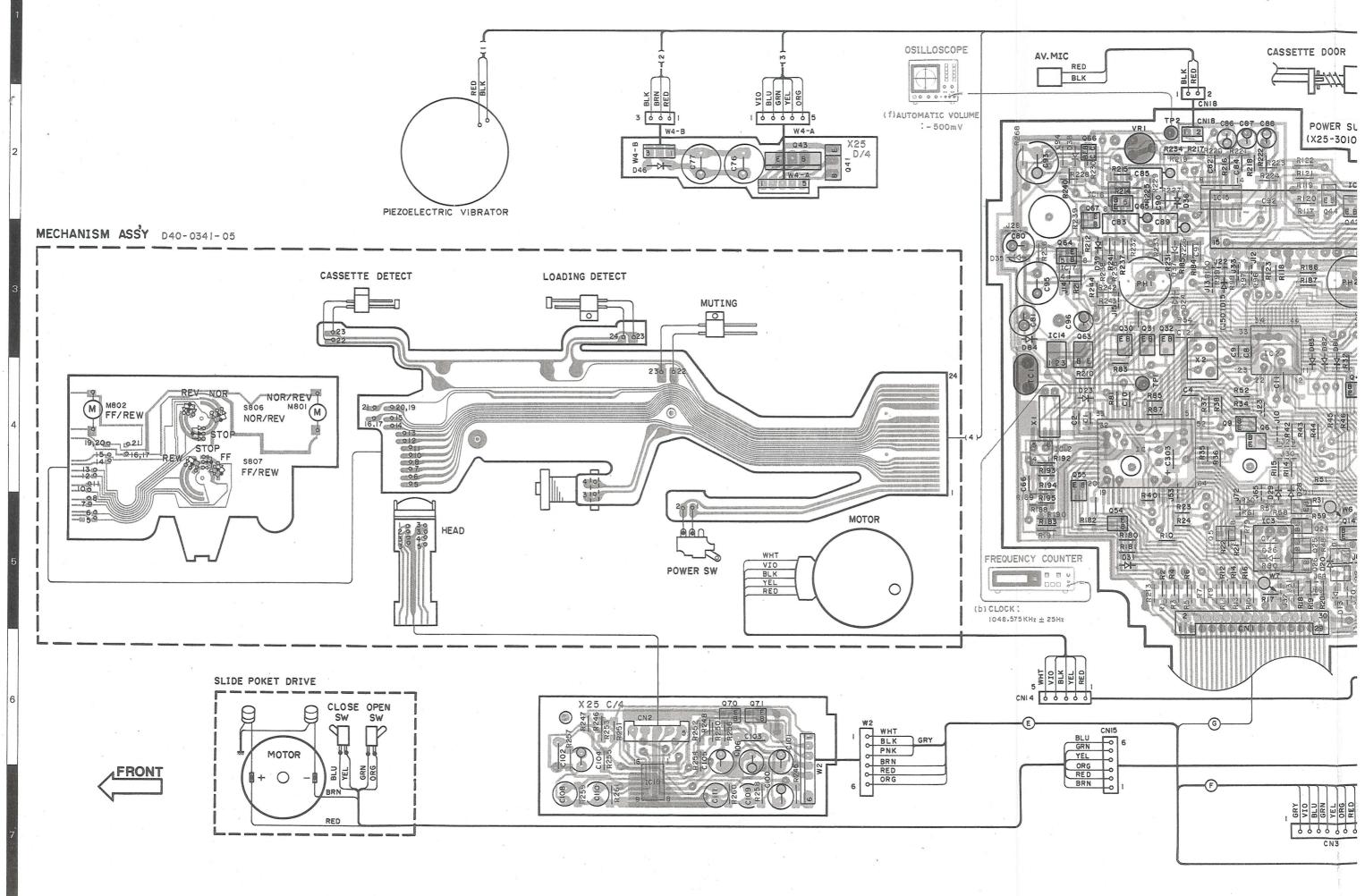
		EINGANGS-	AUSGANGS-	TUNER (RECEIVER)-	ABGLEICH-		
NR.	GEGENSTAND	EINSTELLUNG	EINSTELLUNG	EINSTELLUNG	PUNKTE	ABGLEICHEN FÜR	ABB.
UK	W-ABTEILU	N G Selecto					
1	DISKRIMINATOR	(A) 98.1MHz 0 Hub 60dBµV(ANT-Eingang)	Einen Gleich- spannungsmesser zwischen zu CN1 anschließen. (X05-)	FM 98,1MHz	T1 (X05-)	OV	(a)
2	STEREO KANAL Trennung	(B) 98.1MHz 1kHz.±68,25kHz Hub Wähler: L oder R Pilot:±6,75kHz Hub 60dBµV(ANT-Eingang)	(D)	FM 98,1MHz	VR4 (X05-)	Minimales Ubersprechen. Einen Ausgleichregelung kann notwendig sein, falls links zu rechts und rechts zu links Trennungen ungleich sind.	
3	ANRC	(B) 98,1MHz 1kHz.±68,25kHz Hub Wähler:L oder R Pilot:±6,75kHz Hub 35dBµV(ANT-Eingang)	(D)	FM 98,1MHz	VR1 (X05-)	Trennung: 10dB	
4	HALT PEGEL	(A) 98.1MHz 1kHz.±75kHz Hub 20dBμV(ANT-Eingang)	TP1 (X05-)	FM 98.1MHz	VR2 (X05-)	TP1:0V	
5	SOFT MUTE PEGEL	(A) 98,1MHz 1kHz.±75kHz Hub 60dBμV→No Eingang	(D)	FM 98,1MHz	VR3 (X05-)	Ausgang Geräusch Pegel -25dB (Wenn Antenna stecker Nicht anschließen.)	
6	SIGNALMETER	(A) 98,1MHz Ο Hub 45dBμV(ANT-Eingang)	Signalmeter- Anzeige	FM 98.1MHz	VR7 (X05-)	Position, an der alle Signalmeter-Anzeige zu leuchten anfangen.	
				die Separations-Ein	stellung(Stereo Kana	l Trenung) erneut durchführen.	
< 1 >	- ABTEILUN Halt Pegel	G Selecto (C) 999kHz 400Hz. 30% mod 35dB \(\mu \) (ANT-Eingang)	TP1 (X05-)	MW 999kHz	VR5 (X05-)	TP1:0V	
<2>		(C) 999kHz 400Hz. 30% mod 74dBµV(ANT-Eingang)		₩₩ 999kHz	VR6 (X05-)	Position, an der alle Signalmeter-Anzeige zu leuchten anfangen.	
TA	KT-ABTEIL	UNG Power:0					
-1-	TAKT	-	Einen Frequenz- zähler zu TPl anschließen. (X25-)	-	TC1 (X25-)	1,048.575kHz±25Hz	(b)
CA	SSETTEN-D	ECK-ABTEIL	UNG Einen Wechsel-				
[1]	W1EDERGABE Pegel	MTT-150	spannungsmesser zu TP1 anschließen. (X14-)	Bandwiedergabe	VR1(L) VR2(R) (X14-)	245mV	(c)
[2]	AZIMUTH	MTT-144 10kHz, -10dB	(D)	Bandwiedergabe	Kopfazimutschraube (D40-0341-05)	So einstellen, daß die Ausgangspegel der linken und rechten Kanäle bei Rück lauf maximal und übereinstimmend sind.	(d)
[3]	dbx	MTT-150	Einen Gleich- spannungsmesser zu TP2 anschließen. (X14-)	Bandwiedergabe dbx:0N	VR3 (X14-)	15mV	(e)
VE	RSTÄRKER-	ABTEILUNG					
{1}	AUTOMATIK- Lautstärke	-	zu TP2 anschließen. (X25-)	-	VR1 (X25-)	. −500m¥	(1)



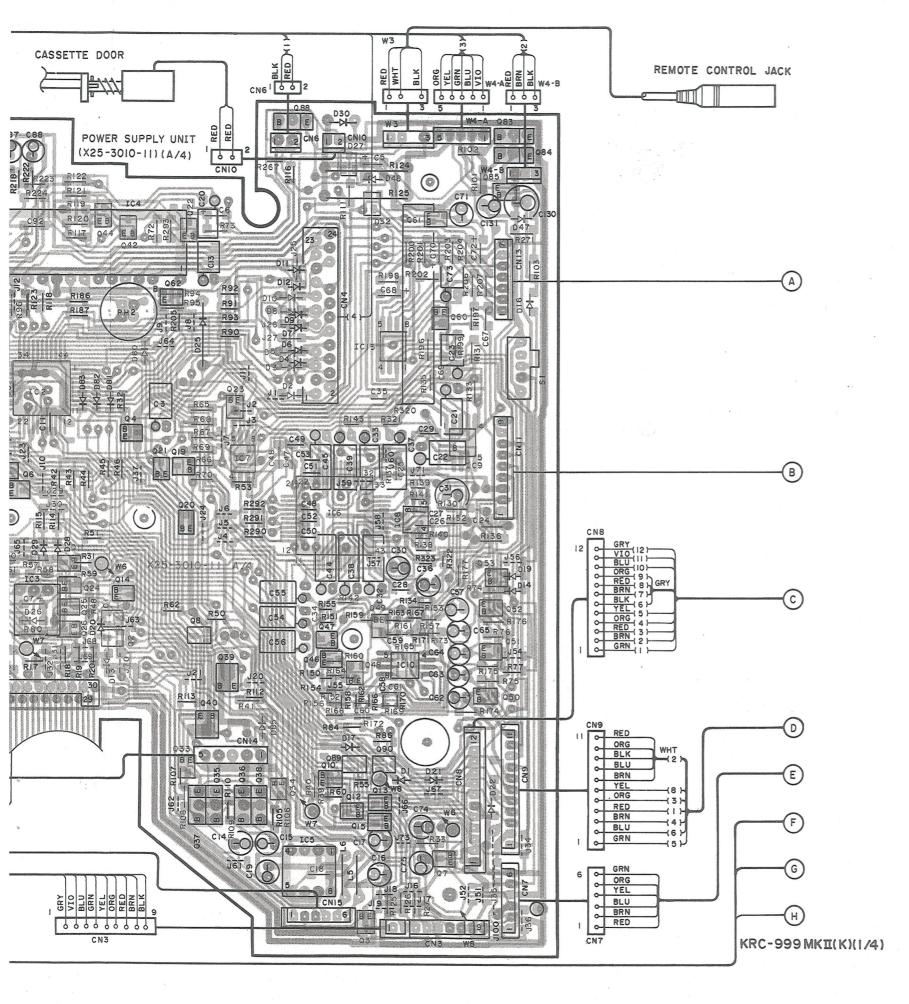
ADJUSTMENT/REGLAGE/ABGLEICH



PC BOARD (COMPON



D (COMPONENT SIDE VIEW)



(X25-3010-11)

IC1		IC4		IC12			
1~3	OV	1 1	4.25V	2	2.30V		В
7	4.76V	3	2.48V	4	OV	Q3 .	4.76V
10	OV	4~7	OV	5	2.40V	Q5	_
11	4.77V	8	5.00V	8	5.46V	Q6	2.07V
12	4.69V	9~10	OV	IC13		Q7,9	4.79V
13	4.75V	11	5.45V	1	4.62V	Q10, 11	_
26	OV	12 ~ 16	0V	2	4.85V	Q12	-
29	OV	IC5	1 01	3	4.50V	Q13	_
30	4.69V	1 ~ 4	OV	1 4	0V	Q19 ~ 21	OV
31	4.70V	5	2.56V	5	4.60V	0.23	4.79V
32	0.50V	6	0V	6		0.24	
33	0.26V	7	5.48V	7	4.62V	Q25	
34	0.20 V	8		-	5.00V	Q26	
35			2.55V	8	9.09V	Q30	
	5.39V	IC6	4.5514	1C14	0.071/	Q31	
36	0V	1	4.55V	VIN	3.87V		_
37	4.78V	3,4	4.54V	VREF	7.69V	Q32	-
39	4.79V	5,6	4.53V	GND	1.32V	Q33	0V
40 ~ 42	OV	7 ~ 9	4.55V	IC15		Q34	4.76V
43	4.79V	10	4.56V	1~3	3.88V	Q40	_
44 ~ 53	OV	11 ~ 13	4.55V	4	7.73V	Q41	
54,55	4.79V	14 ~ 16	OV	5	3.88V	Q43	0V
56	2.07V	17	9.09V	6	3.80V	Q46	_
58	4.79V	18 ~ 20	0V	7~9	3.88V	Q47	_
59 ~ 61	0V	21 ~ 23	4.55V	10	3.84V	Q48	-
62	4.77V	24	4.56V	11	0V	Q49	
63	. 0V	25, 26	4.55V	12, 13	3.88V	Q50 ~ 53	_
2		27	4.56V	14	3.87V	Q55	_
4	4,91V	28, 29	4.53V	IC16		Q60, 61	_
5	4.76V	30 ~ 32	4.55V	1	3.37V	Q62	OV
6	OV	33	4.56V	2,3	3.87V	Q63	_
7	4.76V	34	4.54V	4	OV	Q64	_
8	OV	35	4.56V	5,6	3.87V	Q65	4.78V
9	4.76V	36, 37	4.55V	7	4.06V	Q66	3.87V
10	OV	38, 39	9.09V	8	7.73V	Q67	
11	4.75V	40	OV	IC17		Q70	-
13 ~ 15	0V	41	4.56V	1~3	-0.5V	Q71	_
17	4.79V	42	4.55V	4	-9.90V	Q83	
19,20	OV	43	4.56V	5,6	3.30V		
21	4.79V	44	4.54V	7	1.00V		
22	0V	IC7	4.04 V	8	7.73V		
24 ~ 26	0V	1~3	4.56V	IC18	1.75		
27	4.76V				8.55V		
29 ~ 37	0V	5 ~ 7	0V	1 2			
43		5~7	4.56V	2	3.00V		
	4.75V	IC8, 9	4.0017	3	8.53V		
3	4.7017	1,2	4.60V	4	2.99V		
1	4.76V	3	4.50V	5	2.87V		
0	4.76V	4	0V	6	2.88V		
GND	0V	5	4.50V	7	2.87V		
		6,7	4.60V	8	OV		
		IC10	7	10	2.87V		
		1	4.61V	11	0V		
		2	4.60V	12, 13	2.87V		
		3	4.51V	14	2.97V		
		4	0V	15	0.45V		
		E	4 E2\/	16	2.98V		
		5	4.52V	10	2.90 V		
		6	4.52 V 4.57 V		2.96 V		

4.77V

0V

5.45V

OV

4.76V

5.46V

OV

5.39V

5.45V

0V 4.79V

9.09V

3.87V -9.90V

8.53V

9.09V

0V

0V 0V

OV

0V

4.76V

4.79V

4.69V

0V

0V 0V 4.79V

OV

4.55V 4.56V 4.55V

4.56V

4.70V

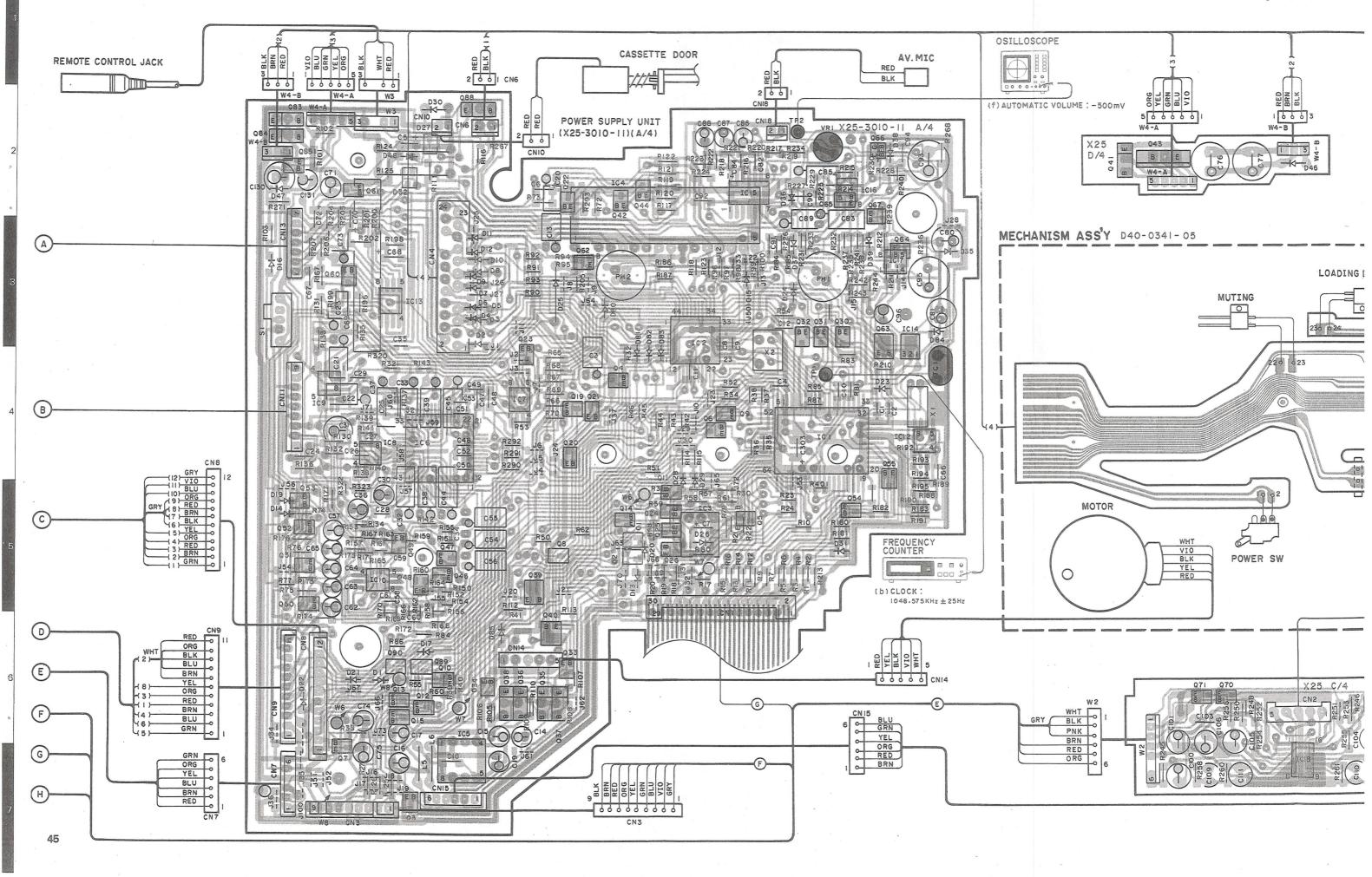
0V 0V

3.87V 0V 0V

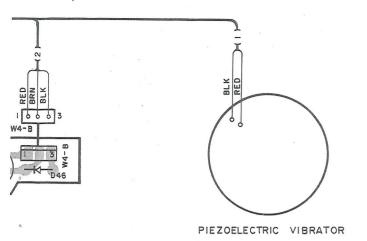
OV

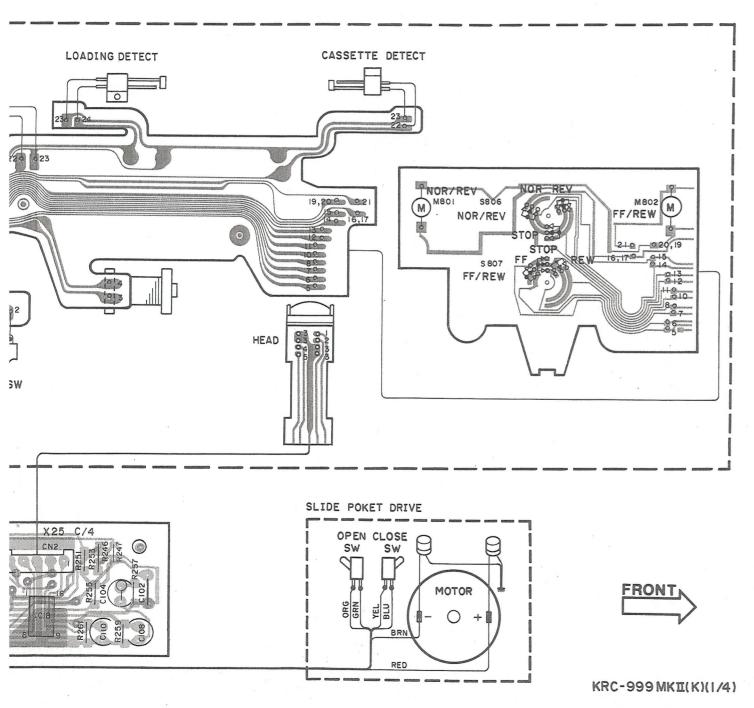
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PC BOARD (FOIL SIDI



FOIL SIDE VIEW)





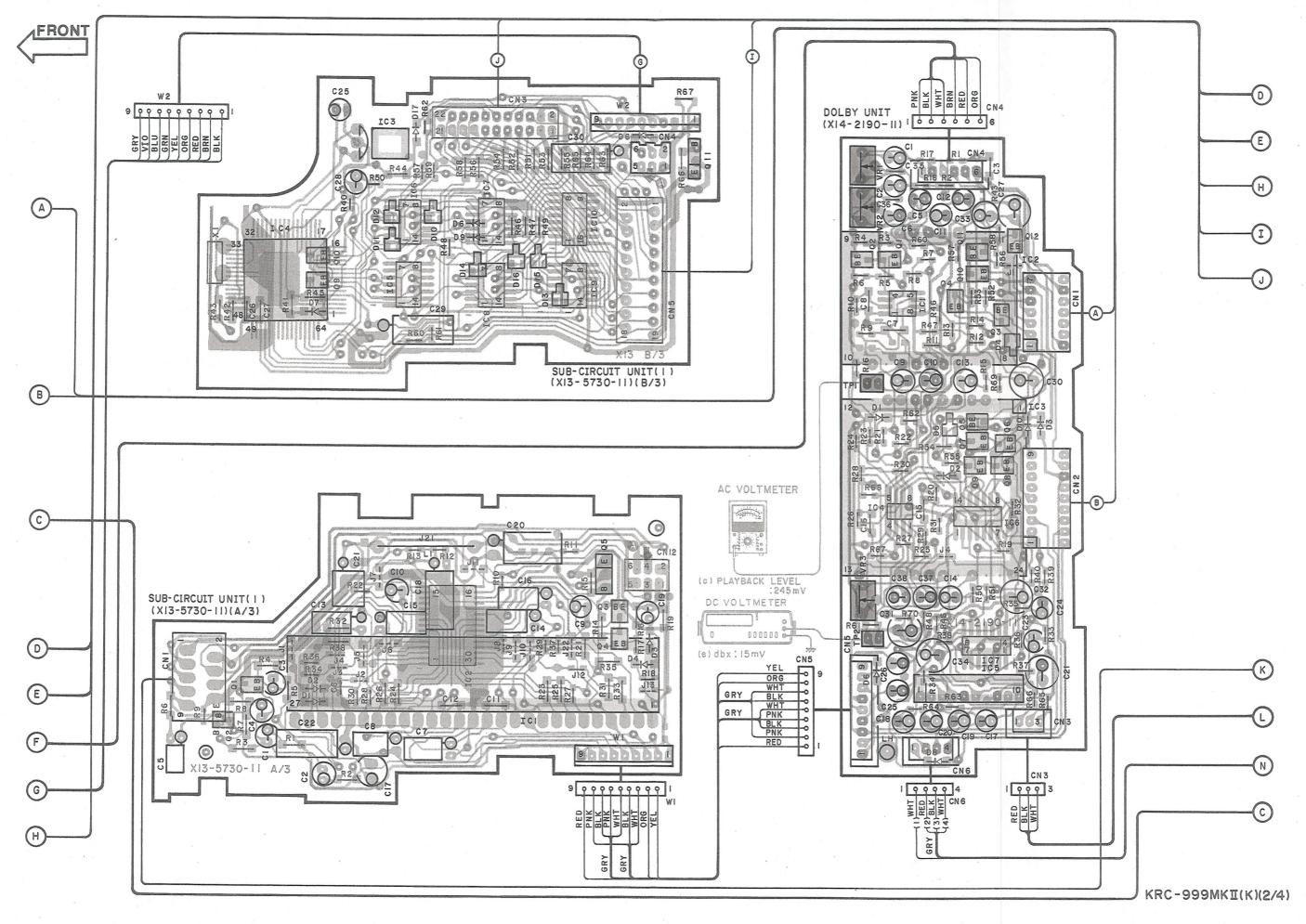
(X25-3010-11)

1	, ,	IC4		IC12	
1~3	0V	1	4.25V	2	2.30V
7	4.76V	3	2.48V	4	OV
10	OV	4~7	OV	5	2.40V
11	4.77V	8	5.00V	8	5.46V
12	4.69V	9~10	OV	IC13	
13	4.75V	11	5.45V		4.62V
26	OV	12 ~ 16	OV	2	4.85V
29	OV	IC5		3	4.50V
30	4.69V	1~4	OV	1 4	0V
31	4.70V	5	2.56V	5	4.60V
32	0.50V	6	0V	6	4.62V
· 33	0.26V	7	5.48V	7	5.00V
34	0V ·	8	2.55V	8	9.09V
35	5.39V	IC6	2.00 V	IC14	3.03 V
36	0V	1	4 551/	3	3.87V
37		3, 4	4.55V	VIN	
39	4.78V 4.79V		4.54V	VREF	7.69V
		5,6	4.53V	GND	1.32V
12	0V	7~9	4.55V	IC15	0.000
43	4.79V	10	4.56V	1~3	3.88V
1 ~ 53	0V	11 ~ 13	4.55V	4	7.73V
54, 55	4.79V	14 ~ 16	0V	5	3.88V
56	2.07V	17	9.09V	6	3.80V
58	4.79V	18 ~ 20	0V	7~9	3.88V
~ 61	0V	21 ~ 23	4.55V	10	3.84V
62	4.77V	24 ·	4.56V	11	OV
63	OV	25, 26	4.55V	12, 13	3.88V
		. 27	4.56V	14	3.87V
4	4.91V	28, 29	4.53V	IC16	
5	4.76V	30 ~ 32	4.55V	111	3.37V
6	OV	33	4.56V	2,3	3.87V
7	4.76V	34	4.54V	4	OV
8	OV	35	4.56V	5,6	3.87V
9	4.76V	36, 37	4.55V	7	4.06V
10	OV .	38,39	9.09V	8	7.73V
11	4.75V	40	OV	IC17	
3 ~ 15	OV	41	4.56V	1~3	-0.5V
17	4.79V	42	4.55V	4	-9.90V
9,20	0V	43	4.56V	5,6	3.30V
21	4.79V	44	4.54V	7	1.00V
22	0V	IC7		8	7.73V
~ 26	OV	1~3	4.56V	IC18	
27	4.76V	4	0V	1	8.55V
~ 37	OV	5~7	4.56V	2	3.00V
43	4.75V	IC8, 9		3	8.53V
		1,2	4.60V	4	2.99V
ī	4.76V	3	4.50V	5	2.87V
0	4.76V	4	0V	6	2.88V
SND	0V	5	4.50V	7	2.87V
		6,7	4.60V	8	0V
		IC10	7.00 V	10	2.87V
		1	1 611/	11	
			4.61V		0V
		2	4.60V	12, 13	2.87V
		3	4.51V	14	2.97V
		4	OV	15	0.45V
					0.00.
		5	4.52V 4.57V	16	2.98V

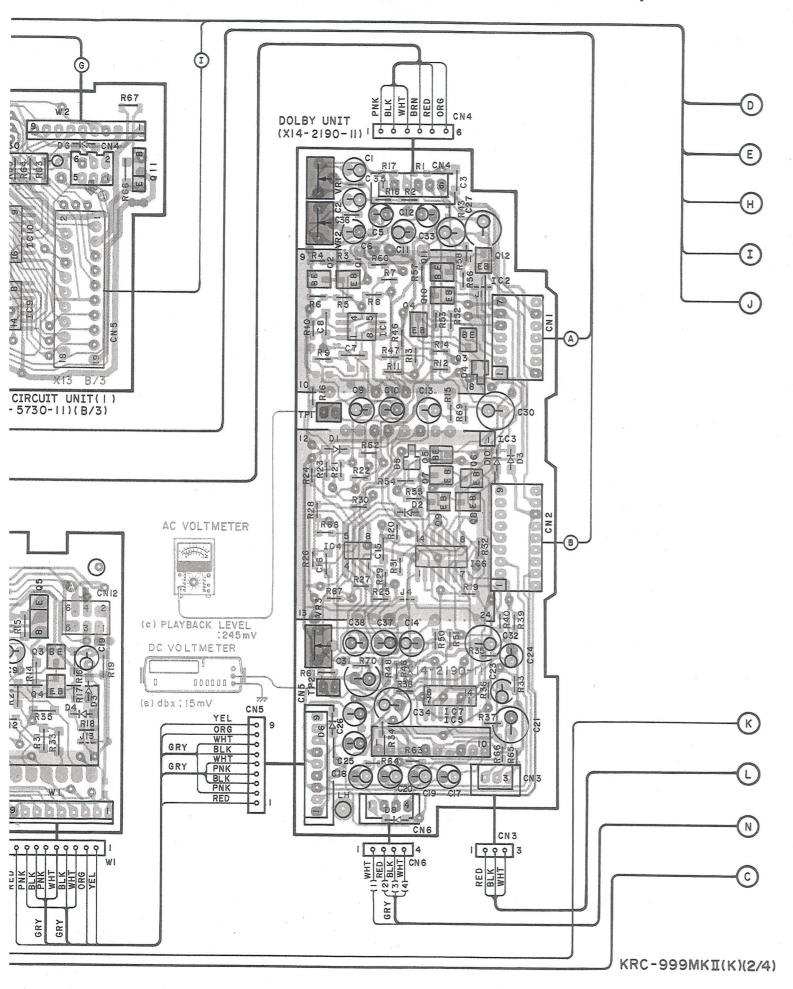
B C E Q3 4.76V - - Q5 - 4.77V 0V Q6 2.07V - 0V Q7,9 4.79V - 0V Q10,11 - - 0V Q12 - 0V - Q13 - - 0V Q19 ~ 21 0V 5.45V - Q23 4.79V - 0V Q24 - 0V 4.76V Q25 - 4.76V 4.79V Q26 - - 0V Q31 - 0V 0V Q32 - 5.39V 0V Q33 0V - 0V Q34 4.76V - 0V Q40 - 5.45V 4.79V Q41 - - 0V Q43 0V - - Q46 -				-
Q5 — 4.77V OV Q6 2.07V — OV Q7,9 4.79V — OV Q10,11 — — OV Q13 — — OV Q13 — — OV Q19 ~ 21 OV 5.45V — Q23 4.79V — OV Q24 — OV 4.76V Q25 — 4.76V 4.79V Q26 — — OV Q30 — 5.46V 4.69V Q31 — OV OV Q32 — 5.39V OV Q33 OV — OV Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q46 — — 4.55V <		В	С	E
Q6 2.07V — OV Q7,9 4.79V — OV Q10,11 — — OV Q13 — — OV Q13 — — OV Q19 ~ 21 OV 5.45V — Q23 4.79V — OV Q24 — OV 4.76V Q25 — 4.76V 4.79V Q26 — — OV Q30 — 5.46V 4.69V Q31 — OV OV Q32 — 5.39V OV Q33 OV — OV Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q46 — — 4.55V Q47 — — 4.56V Q49 — — 4.56V Q50 — — 0V<	Q3	4.76V	_	
Q7,9 4.79∨ — OV Q10,11 — — OV Q12 — OV — Q13 — — OV Q19 ~ 21 OV 5.45∨ — Q23 4.79∨ — OV Q24 — OV 4.76∨ Q25 — 4.76∨ 4.79∨ Q26 — — OV Q30 — 5.46∨ 4.69∨ Q31 — OV OV Q32 — 5.39∨ OV Q33 OV — OV Q34 4.76∨ — OV Q40 — 5.45∨ 4.79∨ Q41 — — OV Q43 OV — — Q46 — — 4.55∨ Q47 — — 4.56∨ Q49 — — 4.56∨ <	Q5	_	4.77V	0V
Q10, 11 — — OV Q12 — OV — Q13 — — OV Q19 ~ 21 OV 5.45V — Q23 4.79V — OV Q24 — OV 4.76V Q25 — 4.76V 4.79V Q26 — — OV Q31 — OV OV Q32 — 5.39V OV Q33 OV — OV Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q43 OV — — Q44 — — 4.56V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 ~ 53 — OV — Q62 OV — OV	Ω6	2.07V	-	0V
Q12 — OV — Q13 — — OV Q19 ~ 21 OV 5.45V — Q23 4.79V — OV Q24 — OV 4.76V Q25 — 4.76V 4.79V Q26 — — OV Q30 — 5.46V 4.69V Q31 — OV OV Q32 — 5.39V OV Q33 OV — OV Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — OV Q43 OV — — 0V Q46 — — 4.55V Q48 — — 4.56V Q49 — — 4.56V Q50 — 0V — Q55 — 4.79V 4.70V Q60 0V <td>Q7,9</td> <td>4.79V</td> <td>_</td> <td>OV</td>	Q7,9	4.79V	_	OV
Q13 — — OV Q19 ~ 21 OV 5.45V — Q23 4.79V — OV Q24 — OV 4.76V Q25 — 4.76V 4.79V Q26 — — OV Q30 — 5.46V 4.69V Q31 — OV OV Q32 — 5.39V OV Q33 OV — OV Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q43 OV — — Q45 — — 4.55V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 ~ 53 — OV — Q55 — 4.79V 4.70V Q62 OV — <t< td=""><td>Q10, 11</td><td>_</td><td>_</td><td>0V</td></t<>	Q10, 11	_	_	0V
Q19 ~ 21 OV 5.45V — Q23 4.79V — OV Q24 — OV 4.76V Q25 — 4.76V 4.79V Q26 — — OV Q30 — 5.46V 4.69V Q31 — OV OV Q32 — 5.39V OV Q33 OV — OV Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q43 OV — — Q46 — — 4.55V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 — 5 — 4.79V 4.70V Q60 61 — — OV — Q62 OV — OV —	Q12	_	0V	
Q23 4.79V — OV 4.76V Q24 — OV 4.76V 4.76V Q25 — 4.76V 4.79V Q26 — — OV Q30 — 5.46V 4.69V Q31 — OV OV Q32 — 5.39V OV Q33 OV — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q46 — — 4.55V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 — 53 — OV — Q55 — 4.79V 4.70V — Q62 OV — OV —	Q13		_	0V
Q24 — OV 4.76V Q25 — 4.76V 4.79V Q26 — — OV Q30 — 5.46V 4.69V Q31 — OV OV Q32 — 5.39V OV Q33 OV — OV Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q46 — — 4.55V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 — 5.30V — Q55 — 4.79V 4.70V Q60 61 — — OV	Q19 ~ 21	0V	5.45V	_
Q25 — 4.76V 4.79V Q26 — — 0V Q30 — 5.46V 4.69V Q31 — 0V 0V Q32 — 5.39V 0V Q33 0V — 0V Q40 — 5.45V 4.79V Q41 — — 0V Q43 0V — — Q46 — — 4.55V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 ~ 53 — 0V — Q55 — 4.79V 4.70V Q60, 61 — — 0V — 0V — 0V	023	4.79V	_	0V
Q26 — — OV Q30 — 5.46V 4.69V Q31 — OV OV Q32 — 5.39V OV Q33 OV — OV Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q46 — — 4.55V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 ~ 53 — OV — Q55 — 4.79V 4.70V Q60, 61 — — OV — OV — OV	Q24	_	0V	4.76V
Q30 — 5.46V 4.69V Q31 — 0V 0V Q32 — 5.39V 0V Q33 0V — 0V Q34 4.76V — 0V Q40 — 5.45V 4.79V Q41 — — 0V Q43 0V — — Q46 — — 4.55V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 ~ 53 — 0V — Q55 — 4.79V 4.70V Q60, 61 — — 0V Q62 0V — 0V	Q25	_	4.76V	4.79V
Q31 — OV OV Q32 — 5.39V OV Q33 OV — OV Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q46 — — 4.55V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 ~ 53 — OV — Q55 — 4.79V 4.70V Q60, 61 — — OV Q62 OV — OV	Q26	-	_	0V
Q32 — 5.39V OV Q33 OV — OV Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q46 — — 4.55V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 ~ 53 — OV — Q55 — 4.79V 4.70V Q60, 61 — — OV Q62 OV — OV	Q30	_	5.46V	4.69V
Q33 0V - 0V Q34 4.76V - 0V Q40 - 5.45V 4.79V Q41 - - 0V Q43 0V - - Q46 - - 4.55V Q47 - - 4.56V Q48 - - 4.56V Q49 - - 4.56V Q50 ~ 53 - 0V - Q55 - 4.79V 4.70V Q60, 61 - - 0V Q62 0V - 0V	Q31	_	0V	- 0V
Q34 4.76V — OV Q40 — 5.45V 4.79V Q41 — — OV Q43 OV — — Q46 — — 4.56V Q47 — — 4.56V Q48 — — 4.56V Q49 — — 4.56V Q50 ~ 53 — OV — Q55 — 4.79V 4.70V Q60, 61 — — OV Q62 OV — OV	Q32	_	5.39V	OV
Q40 - 5.45V 4.79V Q41 - - 0V Q43 0V - - Q46 - - 4.55V Q47 - - 4.56V Q48 - - 4.56V Q49 - - 4.56V Q50 ~ 53 - 0V - Q55 - 4.79V 4.70V Q60, 61 - - 0V Q62 0V - 0V	Q33	0V		0V
Q41 — — OV Q43 OV — — Q46 — — 4.55V Q47 — — 4.56V Q48 — — 4.55V Q49 — — 4.56V Q50 ~ 53 — OV — Q55 — 4.79V 4.70V Q60, 61 — — OV Q62 OV — OV	Q34	4.76V	_	OV
Q43 OV — Q46 — — Q47 — — Q48 — — Q49 — — Q50 ~ 53 — OV Q55 — 4.79V Q60, 61 — — Q62 OV — OV — OV	Q40	_	5.45V	4.79V
Q46 — — 4.55V Q47 — — 4.56V Q48 — — 4.55V Q49 — — 4.56V Q50 ~ 53 — OV — Q55 — 4.79V 4.70V Q60, 61 — — OV Q62 OV — OV	Q41	_	_	OV
Q47 — — 4.56V Q48 — — 4.55V Q49 — — 4.56V Q50 ~ 53 — OV — Q55 — 4.79V 4.70V Q60, 61 — — OV Q62 OV — OV	Q43	0V	_	_
Q48 — — 4.55∨ Q49 — — 4.56∨ Q50 ~ 53 — 0V — Q55 — 4.79∨ 4.70∨ Q60, 61 — — 0∨ Q62 0∨ — 0∨	Q46	_	_	4.55V
Q49 — — 4.56V Q50 ~ 53 — 0V — Q55 — 4.79V 4.70V Q60, 61 · — — — 0V Q62 0V — 0V	Q47	_	_	4.56V
Q50 ~ 53 - 0V - Q55 - 4.79V 4.70V Q60, 61 - - 0V Q62 0V - 0V	Q48	_	_	4.55V
Q55 — 4.79V 4.70V Q60, 61 — — OV Q62 OV — OV	Q49	_	_	4.56V
Q60, 61 ·· 0V Q62 0V - 0V	Q50 ~ 53		0V	_
Q62 0V - 0V	Q55		4.79V	4.70V
	Q60, 61 ·		_	0V
Q63 - 9.09V 3.87V	Q62	0V	_	0V
	Q63	_	9.09V	3.87V
Q64 – – OV	Q64	_	anno.	0V
Q65 4.78V — 0V	Q65	4.78V	-	0V
Q66 3.87V 3.87V —	Q66	3.87V	3.87V	
Q67 — —9.90V —	Q67	- :	-9.90V	
Q70 — — OV	Q70	_	_	OV
Q71 — 8.53V OV	Q71		8.53V	0V
Q83 — 9.09V —	0.83		9.09V	_

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (COMPONENT SIDE VIEW)



PC BOARD (COMPONENT SIDE VIEW)



(X13-5730-11)

X13-5730-11)				
C1				
1	9.0V			
2,3	4.5V			
4	0V			
5~8	4.5V			
9	2.3V			
10 ~ 13	4.1V			
14	0V			
20 ~ 22	4.5V			
23	0V			
24 ~ 26	4.5V			
27	4.1V			
02				
1	8.8V			
2~10	4.5V			
14, 15	0V			
16	5.0V			
20	0V			
22 ~ 27	4.5V			
24				
3~5	101/			

	,	0.0	
	16	5.0V	
	20	OV	
	22 ~ 27	4.5V	
1	IC4		•
	3 ~ 5	4.9V	
	12,13	4.9V	
	14	0V	
	19,20	4.9V	
	21,22	0V	
	39,40	0V	
	IC5 ~ 9		
	7	0V	
	14	4.9V	
	IC10		
	8	0.\/	

4.9V

16

The state of the s	В	С	Е
Q1	_	_	0V
02	_	9.0V	_
Q3,4	_	· _	0V
Q5 ·	_	_	9.4V
Q9	-	NORMAL: 4.9V CLOSE: 0V	0V
Q10		-,	OV
Q11	:	OPEN: 9.4V CLOSE: 0V	9.4V

(X14-2190-11)

1		IC
4	OV	
8	9.0V	
2		L
	OFF: 0V	
3	B: 4.5V	
	C:8.8V	
4	4.2V	
5	. 0V	IC
6	4.2V	
7	9.0V	
10	4.5V	
11	0V	
12, 13	4.5V	
14	9.0V	
15, 16	4.5V	
17	0V	
18	4.5V	i
3		

OV

OV

OV

9.0V

4.5V 9.0V

4.5V 0V

4.5V

18

8

5

6

8~10

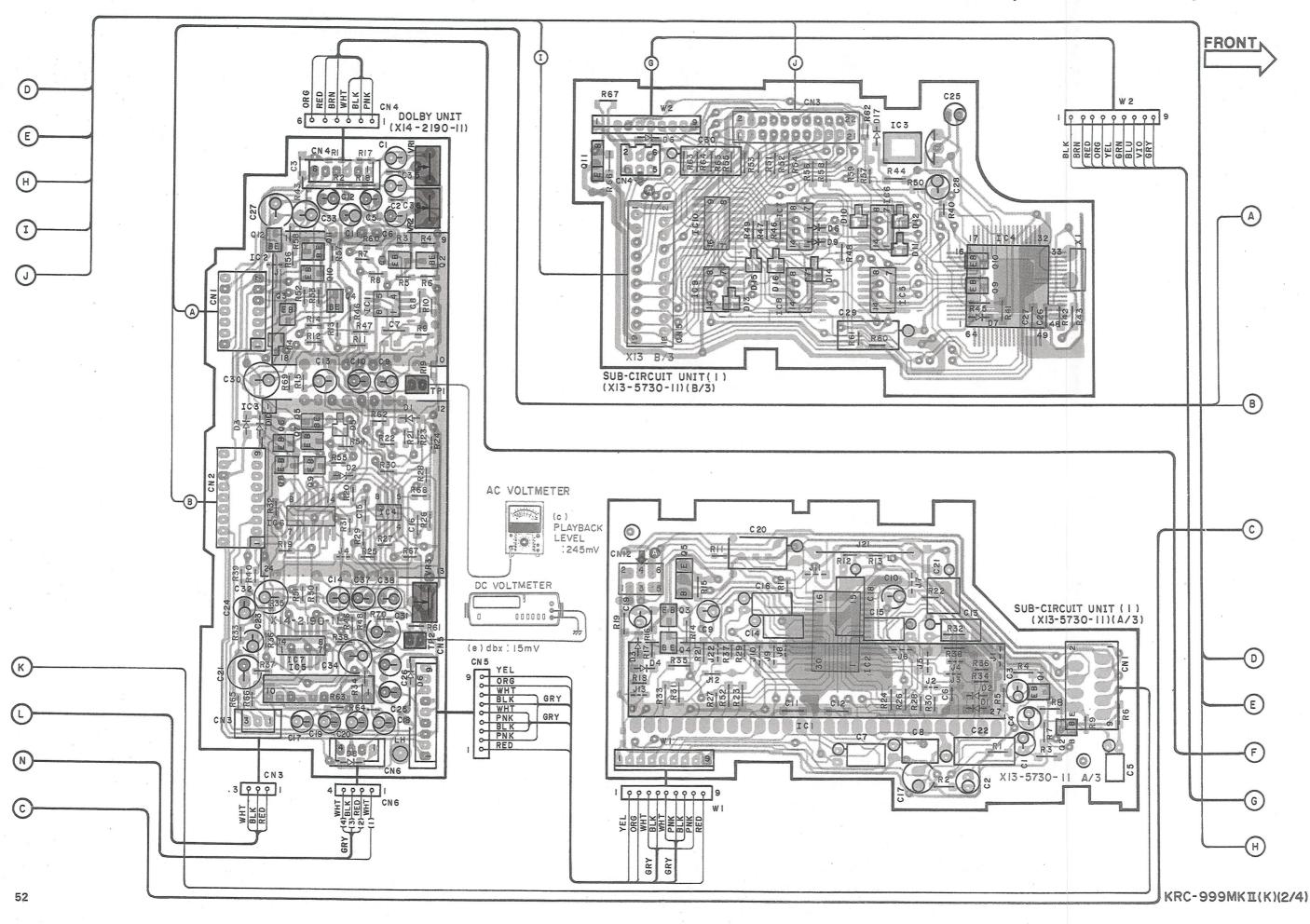
1 ~ 3

	4	4.5V
	7	0V
- Anna	8 ~ 11	4.5V
_	12, 13	(TAPE) dbx OFF: 9.0V
	14	9.0V
	IC7	
	1	4.5V
	2,3	3.7V
	4	4.5V
	5, 6	AUX : 9.0V
	7	0V
	8~11	4.5V
	12, 13	TUNER: 9.0V
	14	9.0V
9		

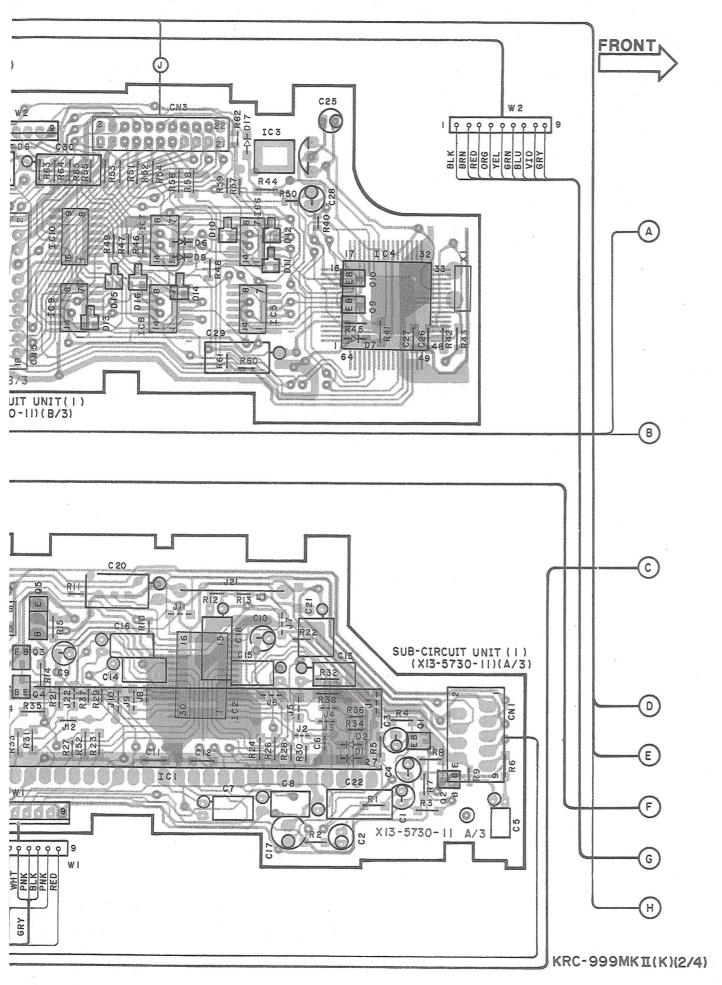
(TAPE) dbx ON: 9.0V

	В	С	E
Q3	ON: 0V OFF: 4.8V	_	0V
Q4	_	_	OV
Q5	_	TUNER: 0V AUX: 0V	0V
Q6	AUX : 4.4V	_	0V
Q7	_	AUX : 9.0V	9.0V
Q8	TUNER: 4.4V	_	0V
Q9	_	TUNER: 9.0V	9.0V
Q10	OFF, B: 0V C: 4.8V	_	0V
Q11	_	– .	9.0V
Q12	ON: 0V OFF: 4.8V	_	0∨

PC BOARD (FOIL SIDE VIEW)



PC BOARD (FOIL SIDE VIEW)



(X13-5730-11)

71	
1	9.0V
2,3	4.5V
4	0V
5~8	4.5V
9	2.3V
10 ~ 13	4.1V
14	OV
20 ~ 22	4.5V
23	0V
24 ~ 26	4.5V
27	4.1V
22	
1	8.8V

4.5V

5.0V OV

2~10

16

22 ~ 27

4	
3~5	4.9V
12,13	4.9V
14	OV
19,20	4.9V
21,22	OV
39,40	0V

0V

14	4.9V	
IC10		
8	0V	
16	4.9V	

(X14-2190-11)

IC1

4	OV
8	9.0V
IC2	
	OFF: 0V
3	B: 4.5V
	C:8.8V
4	4.2V
5	0V
6	4.2V
7	9.0V
10	4.5V
11	0V
12, 13	4.5V
14	9.0V
15, 16	4.5V
17	0V
18	4.5V
IC3	
_	01.4

7	OV	
18	0V	
C4		
4	OV	
8	9.0V	
C5		
1 0	0.517	

9.0V 4.5V 6 0V 8 ~ 10 4.5V

12, 13

14

IC6	
1~3	4.5V
4	(TAPE) dbx ON: 9.0V
	4.5V
7	OV
8~11	4.5V
12, 13	(TAPE) dbx OFF: 9.0V
14	9.0V
IC7	
1	4.5V
2,3	3.7V
4	4.5V
5, 6	AUX : 9.0V
7	OV
8~11	4.5V

- 1	В	С .	E
Q3	ON: 0V OFF: 4.8V	_	0V
Q4	<u> </u>	_	0V
Ω5	_	TUNER: 0V AUX: 0V	0V
Q6	AUX: 4.4V	_	0V
Q7	_	AUX: 9.0V	9.0V
Q8	TUNER: 4.4V	_	OV
Q9	-	TUNER: 9.0V	9.0V
Q10	OFF, B: 0V C: 4.8V	-	0V
Q11	_	_	9.0V
Q12	ON: 0V OFF: 4.8V	_	0V

TUNER: 9.0V

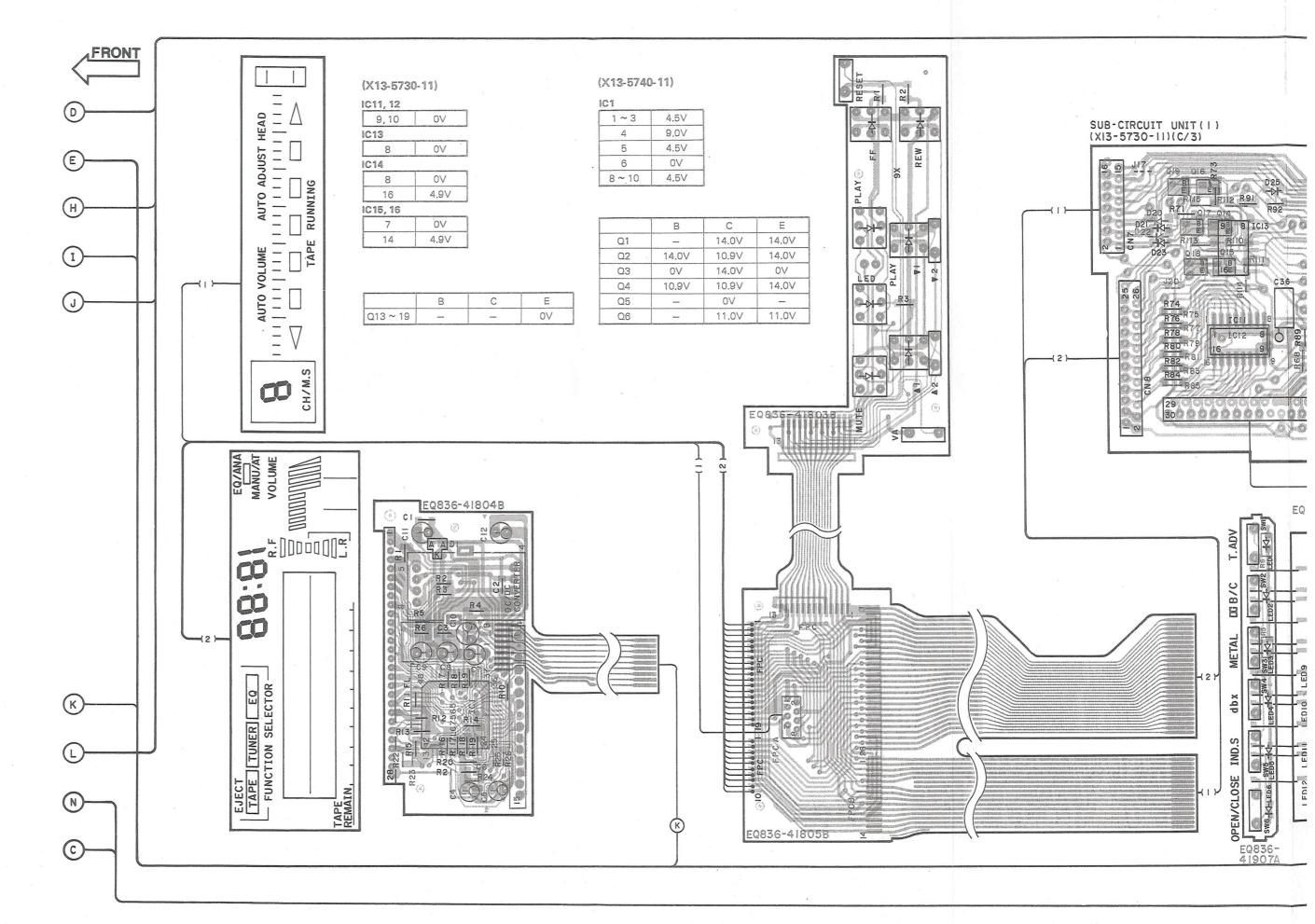
9.0V

I	NORMAL: 4.9V RST: 0V
0	-
G	0V

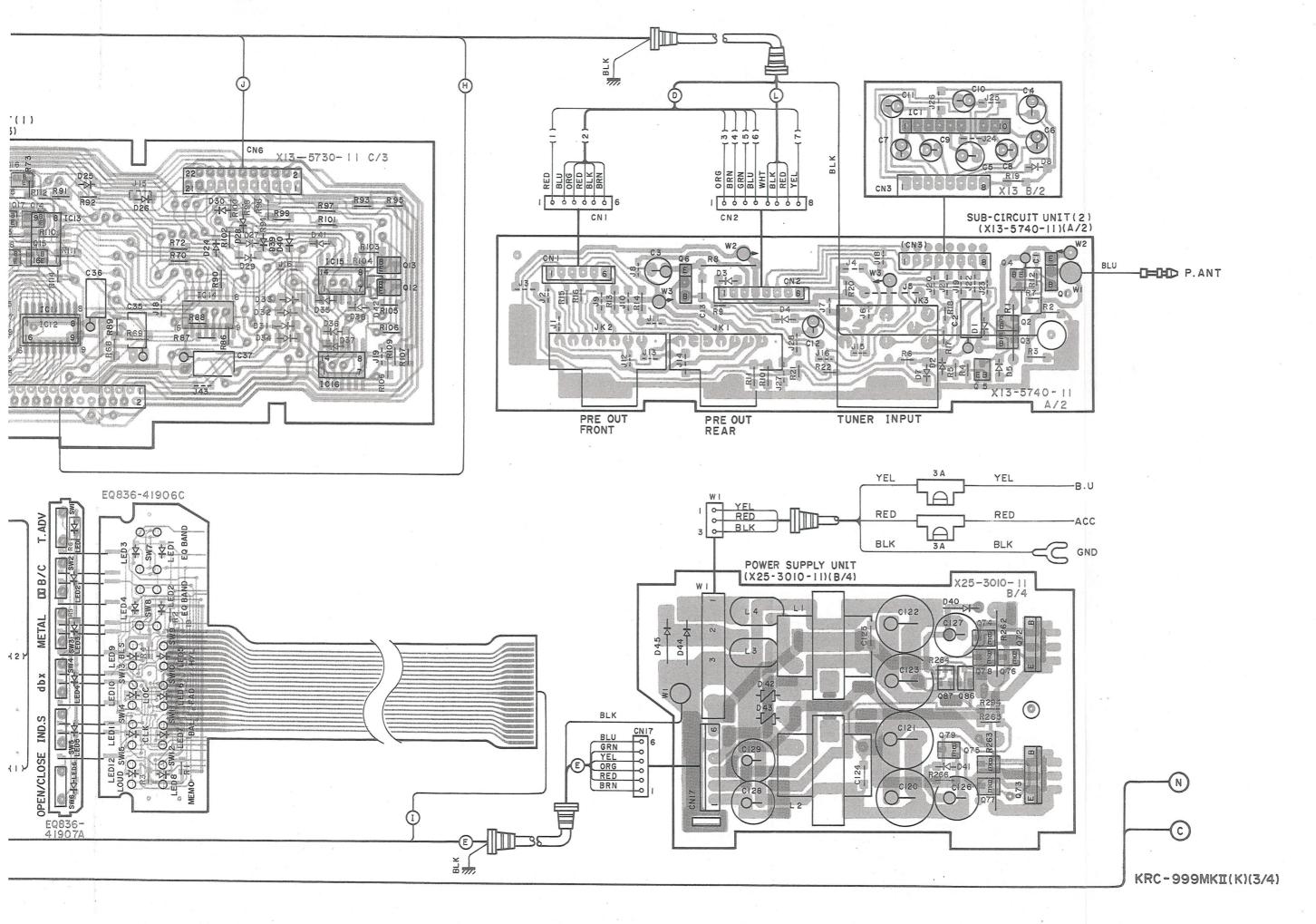
	В	С	E
Q1	_	_	0V
Q2	-	9.0V	_
Q3,4	_	_	0V
Q5	_	_	9.4V
Ω9	_	NORMAL: 4.9V CLOSE: 0V	0V
Q10	_	_	OV
Q11	_	OPEN: 9.4V CLOSE: 0V	9.4V

Refer to the schematic diagram for the values of resistors and capacitors.

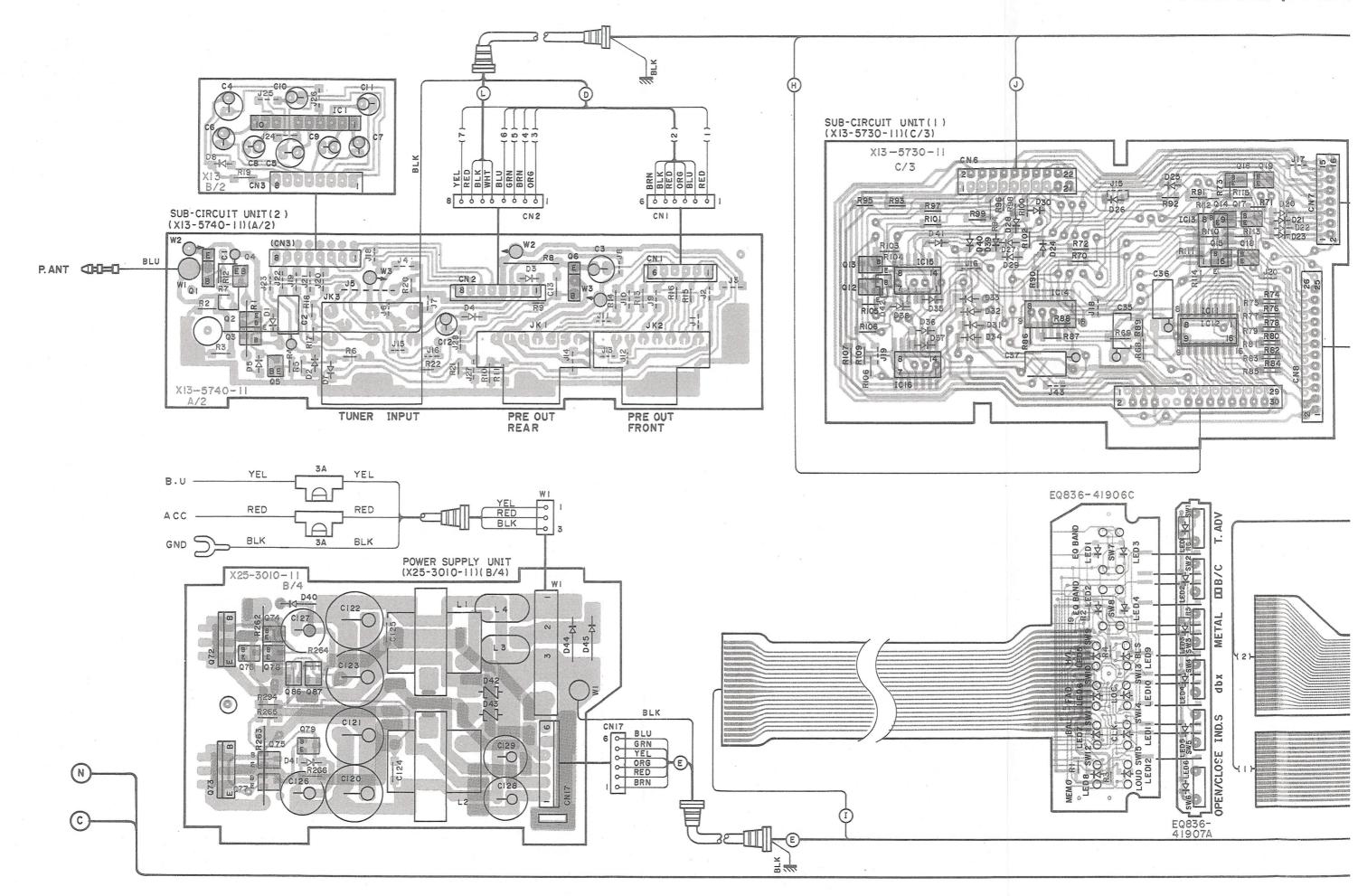
PC BOARD (COMPONENT

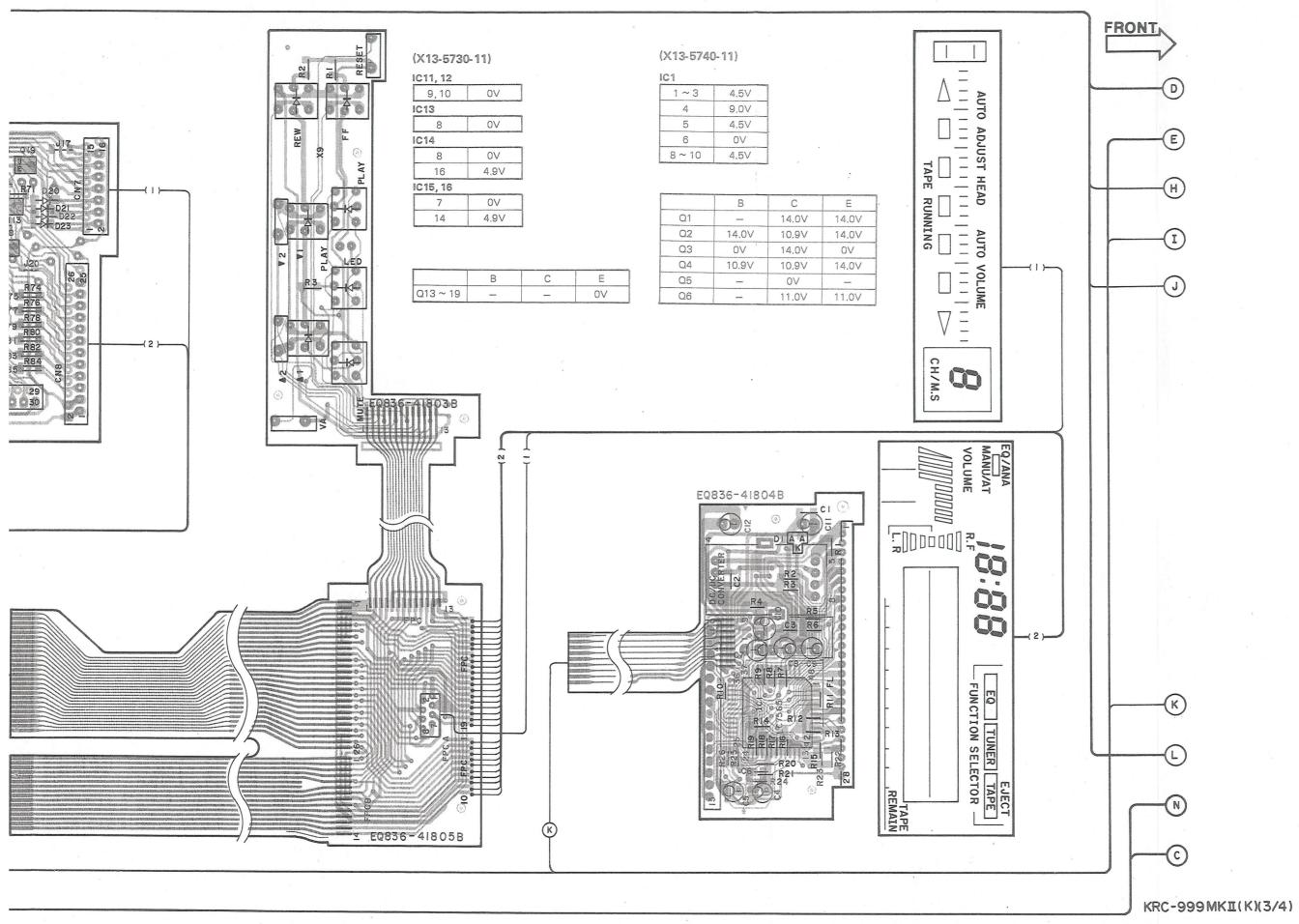


OMPONENT SIDE VIEW)



PC BOARD (FOIL S



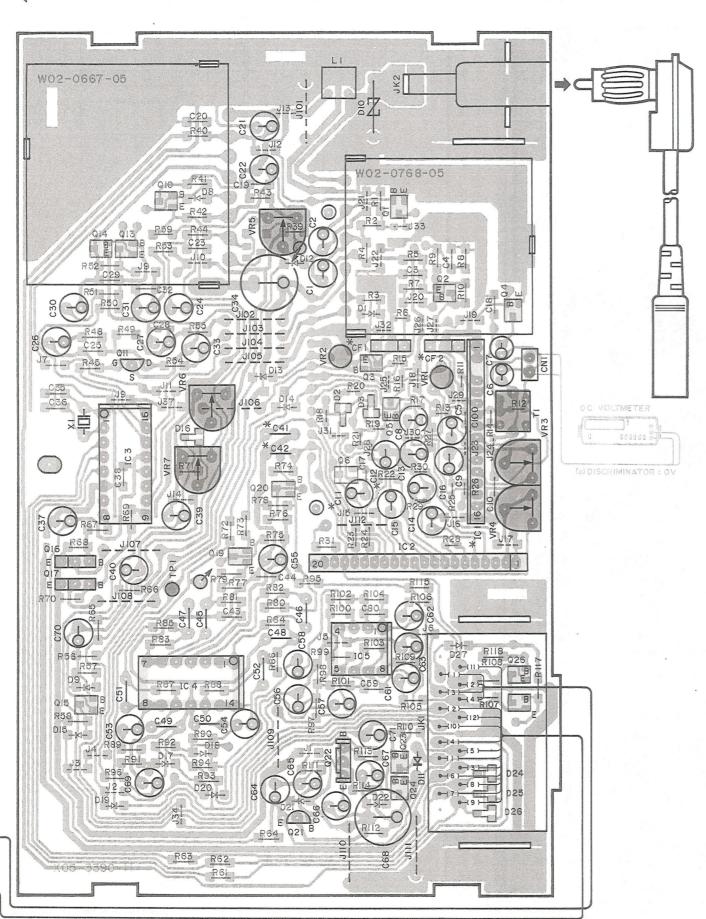


PC BOARD (COMPONENT SIDE VIEW)

KRC-999MKII(K)(4/4)



N)-



X05-3390	-11)	
IC1		IC4
3	8.6V	1 ^
4	2.5V	4
5	0V	5,
6	5.6V	7 ~
7~9	5.0V	12 ~
11	9.2V	IC5
12	4.5V	1,
13, 14	OV	3
15	1.2V	1 8
16	4.9V	6,
C2	ACCUPATION OF PERSONS AND PROPERTY OF THE PERSONS AND	8
1	9.0V	
2	4.3V	
3	3.0V	
4	3.6V	
5	4.0V	
7~9	OV	
10	0.5V	
11	4.2V	
12	3.2V	
13	3.5V	
15	3.5V	
16	2.0V	
17	1.6V	
18	0.8V	
19	0.5V	
20	0.7V	
IC3	have the same the second control of the seco	
1	0.3V	1
2	1.0V	1
3~5	0V	
8	9,2V	F 10 %
		-1

1.0V 0V

0.8V

4.8V 1.2V

10

11 12, 13

15

	В	С	E
Ω3	5.6V	_	-
014	-	1.2 ~ 7.3V	_
Q16	_	9.5V	-
Ω17	_	9.5V	10.1V
Q21	5.2V		5.7V

10.1V

3.0V 9.2V 2.8V 3.0V

3.0V

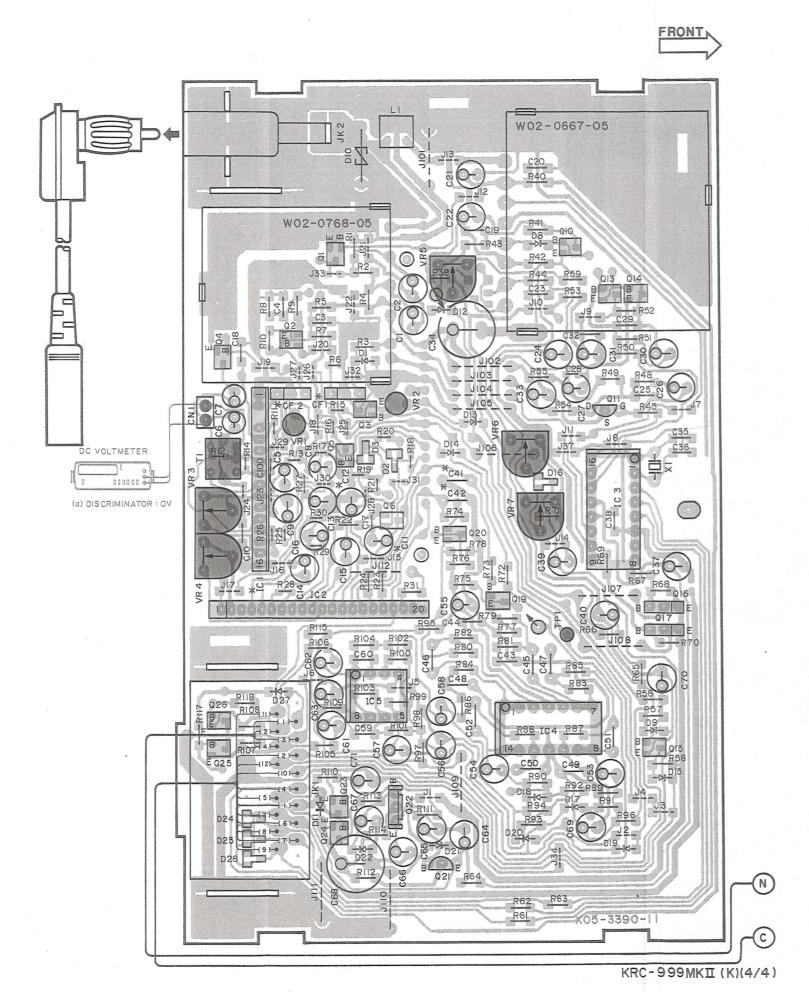
4.9V 2.5V 2.5V 4.8V

9.5V

022

9.5V

PC BOARD (FOIL SIDE VIEW)



(X05-3390-11)

1		IC4	
3	8.6V	1~3	3.0V
4 .	2.5V	4	9.2V
5	0V	5,6	2.8V
6	5.6V	7 ~ 10	3.0V
7~9	5.0V	12 ~ 14	3.0V
11	9.2V	IC5	
12	4.5V	1,2	4.9V
13, 14	0V	3	2.5V
15	1.2V	5	2.5V
16	4.9V	6, 7	4.8V
2		8	9.5V

9.0V 4.3V

3.0V

3.6V 4.0V 0V

0.5V

4.2V

3.2V

3.5V

3.5V

2.0V

1.6V

0.8V

0.5V

0.7V

0.3V

1.0V 0V

9,2V 1.0V

OV

V8.0

4.8V 1.2V

3

4

7 ~ 9

10

12

13

15

16

17

18

19

20

2

3~5

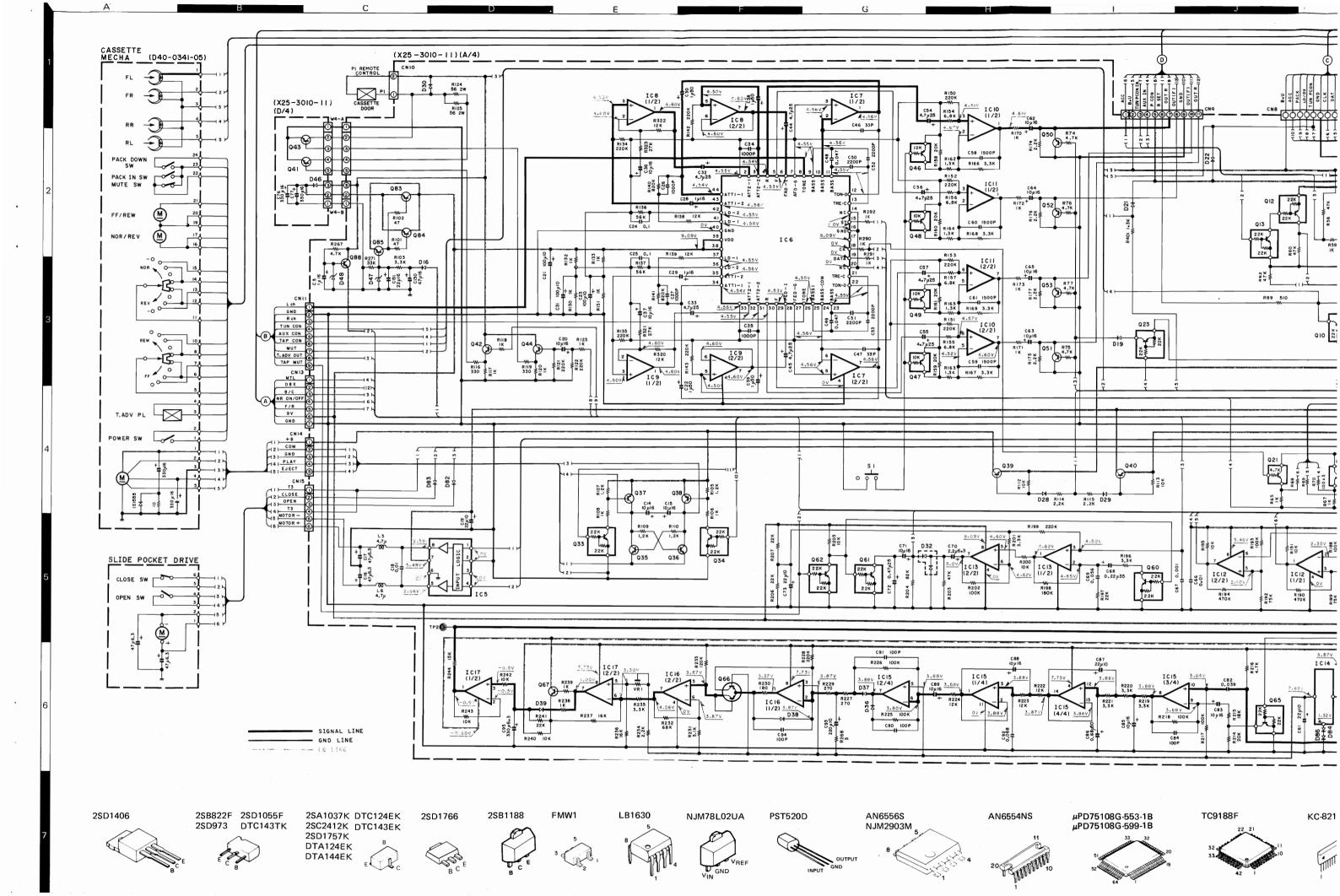
10

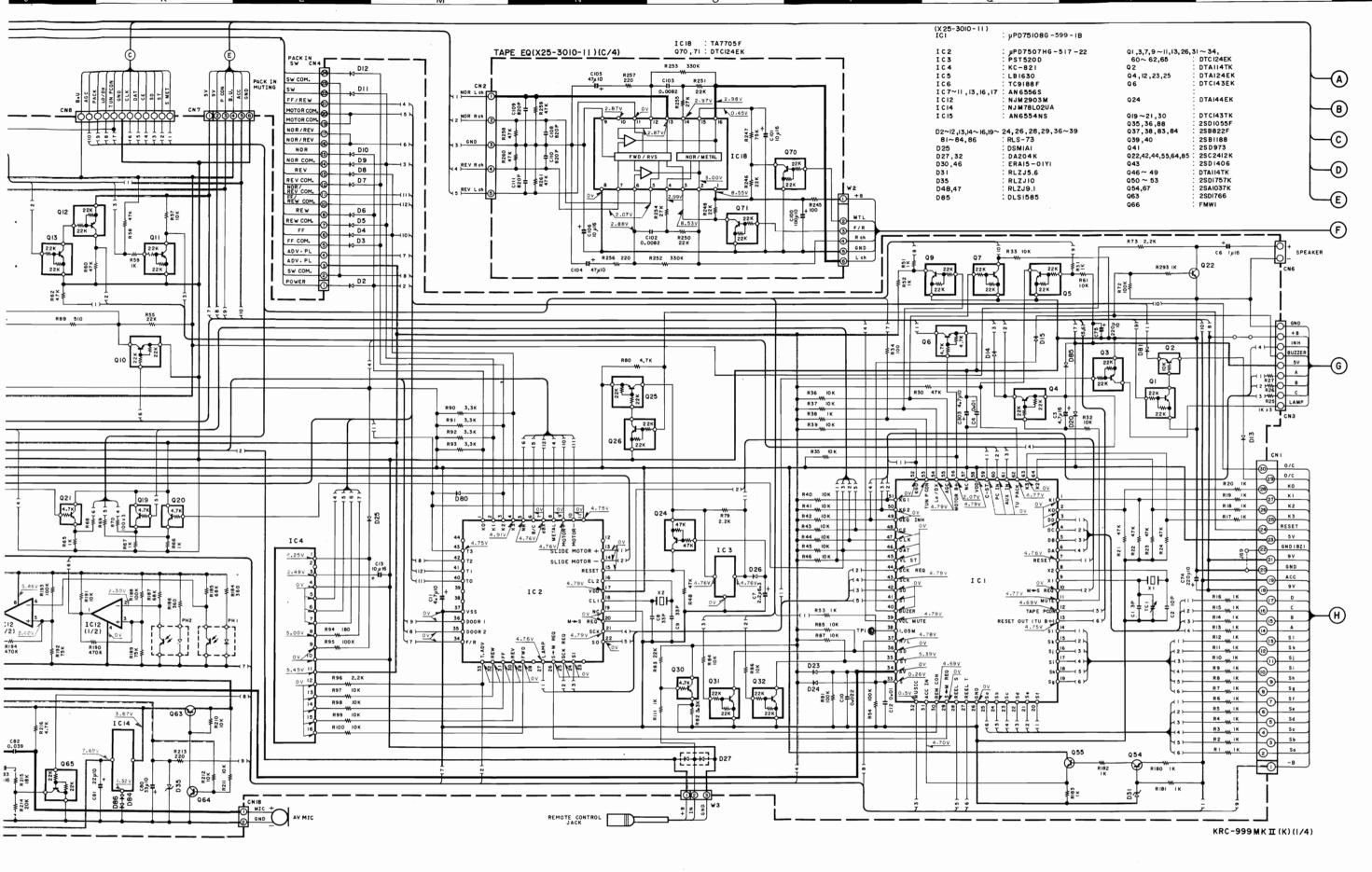
m

12, 13

15

	В	С	E	
Q3	5.6V	_	_	-
Q14	_	1.2 ~ 7.3V	_	
Q16		9.5V	_	-
Q17	_	9.5V	10.1V	
Q21	5.2V		5.7V	-
Q22	9.5V	_	10.1V	-



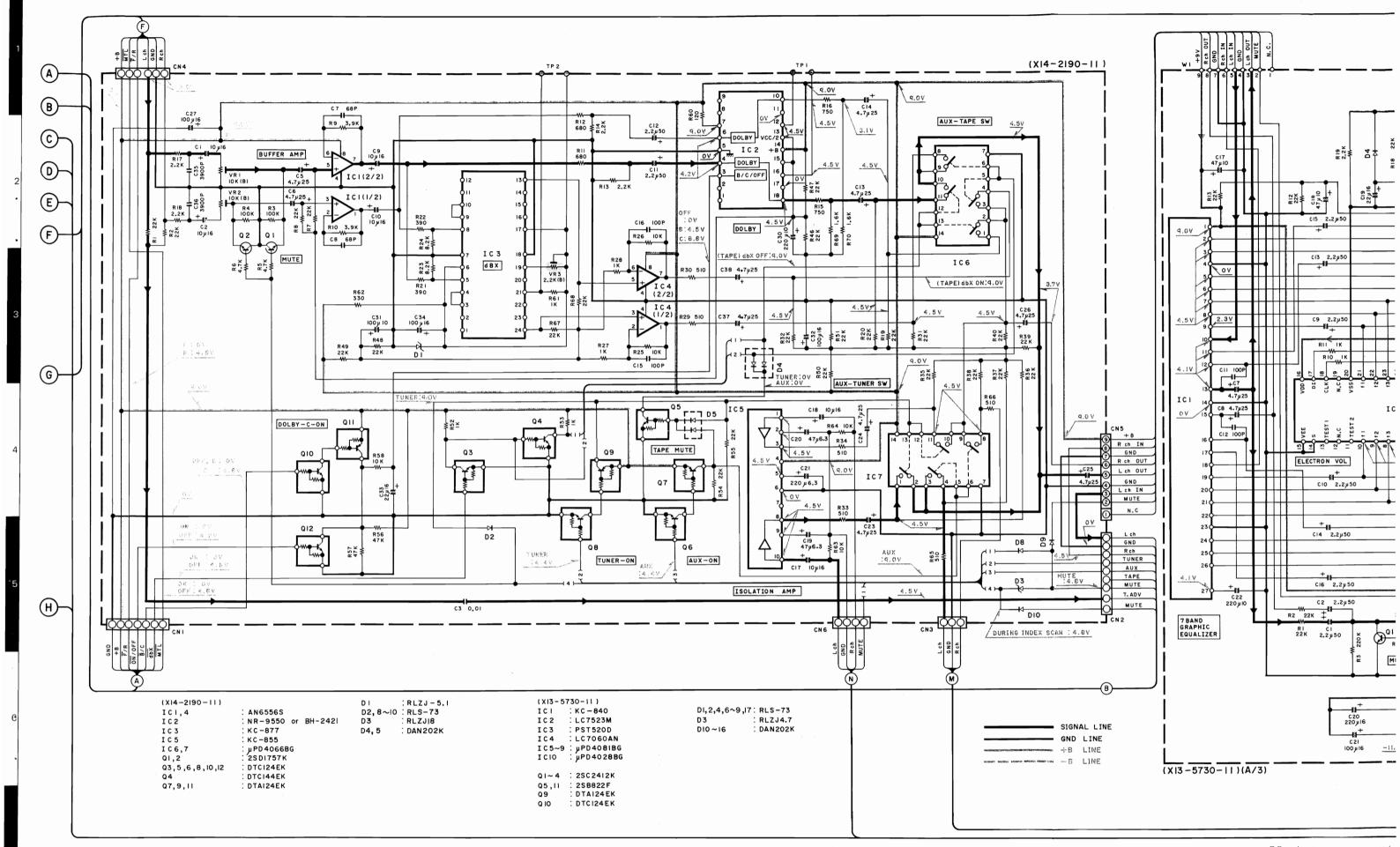




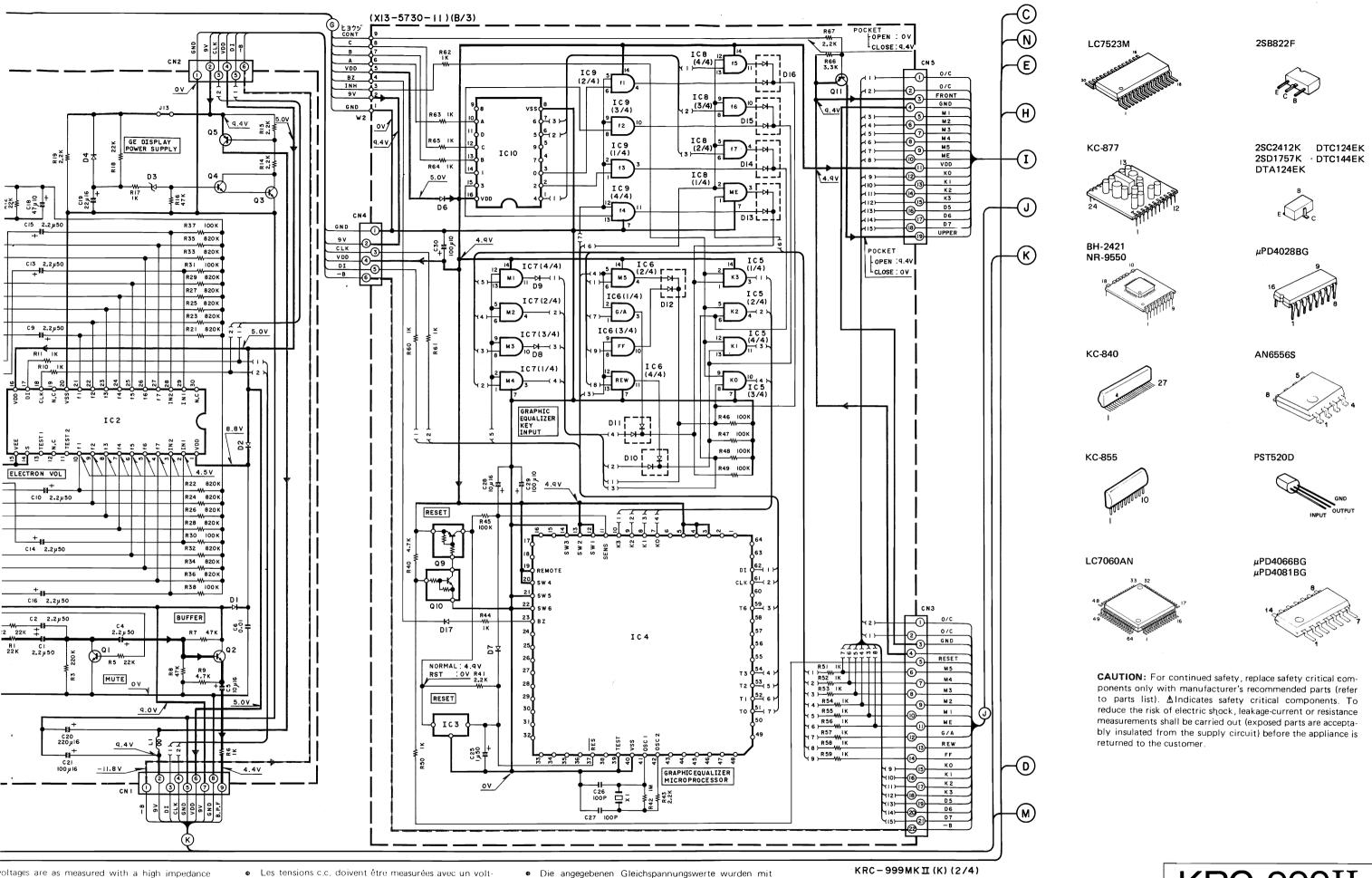
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). AIndicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen. Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geräten u.U. geringfügig.
- Les tensions c.c. doivent être measurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.





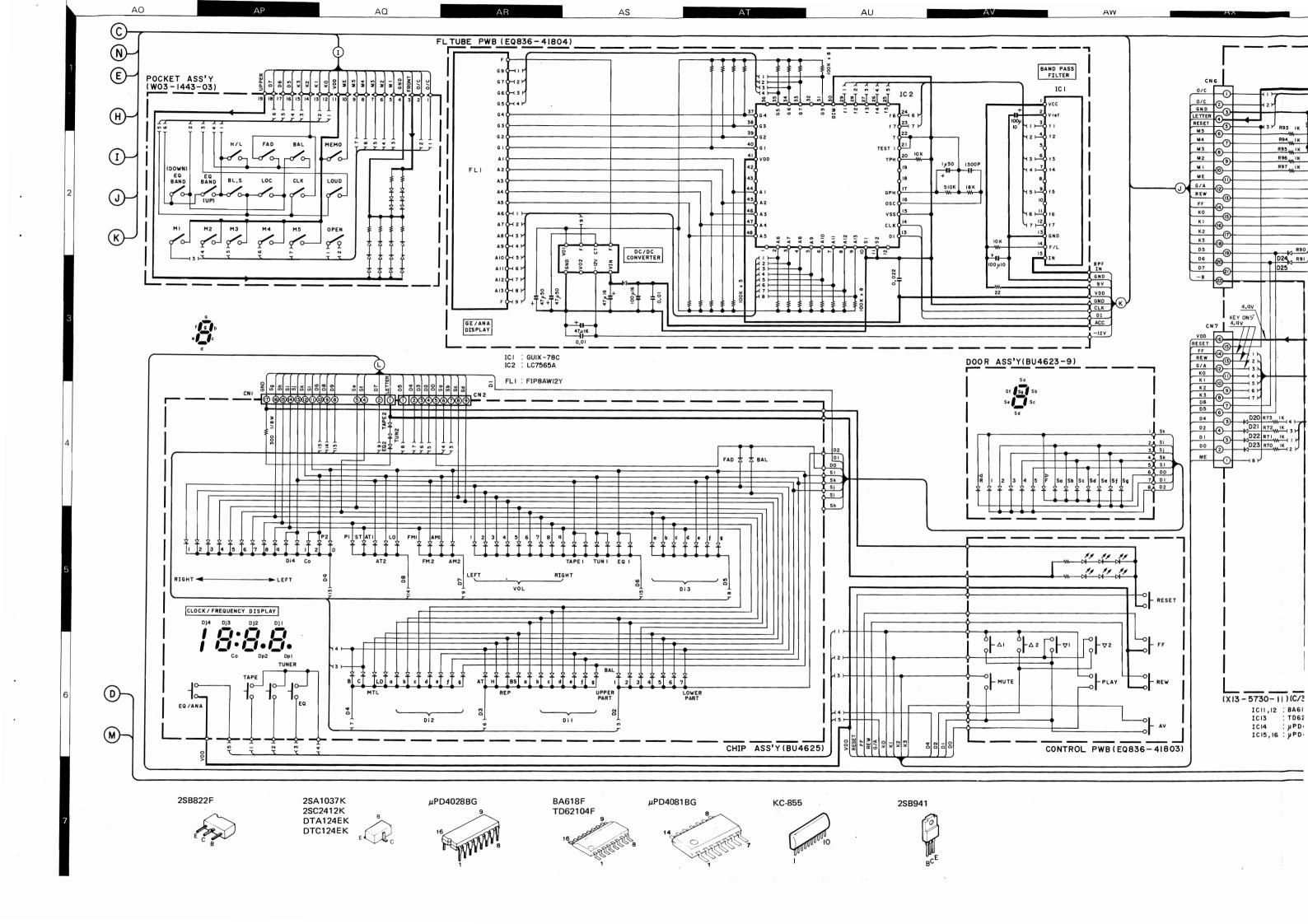
DC voltages are as measured voltmeter. Values may vary sli
 between individual instruments

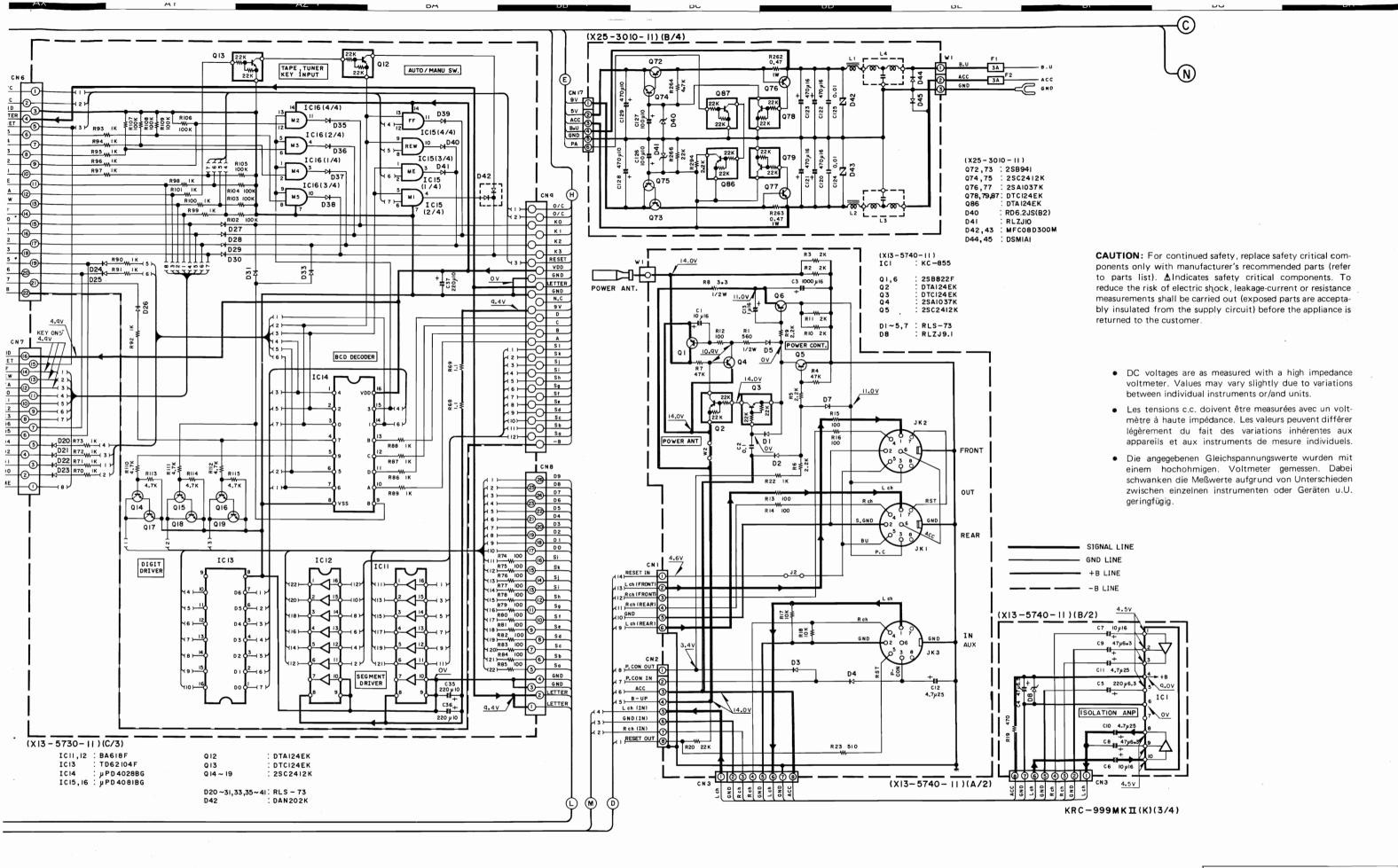


roltages are as measured with a high impedance neter. Values may vary slightly due to variations sen individual instruments or/and units.

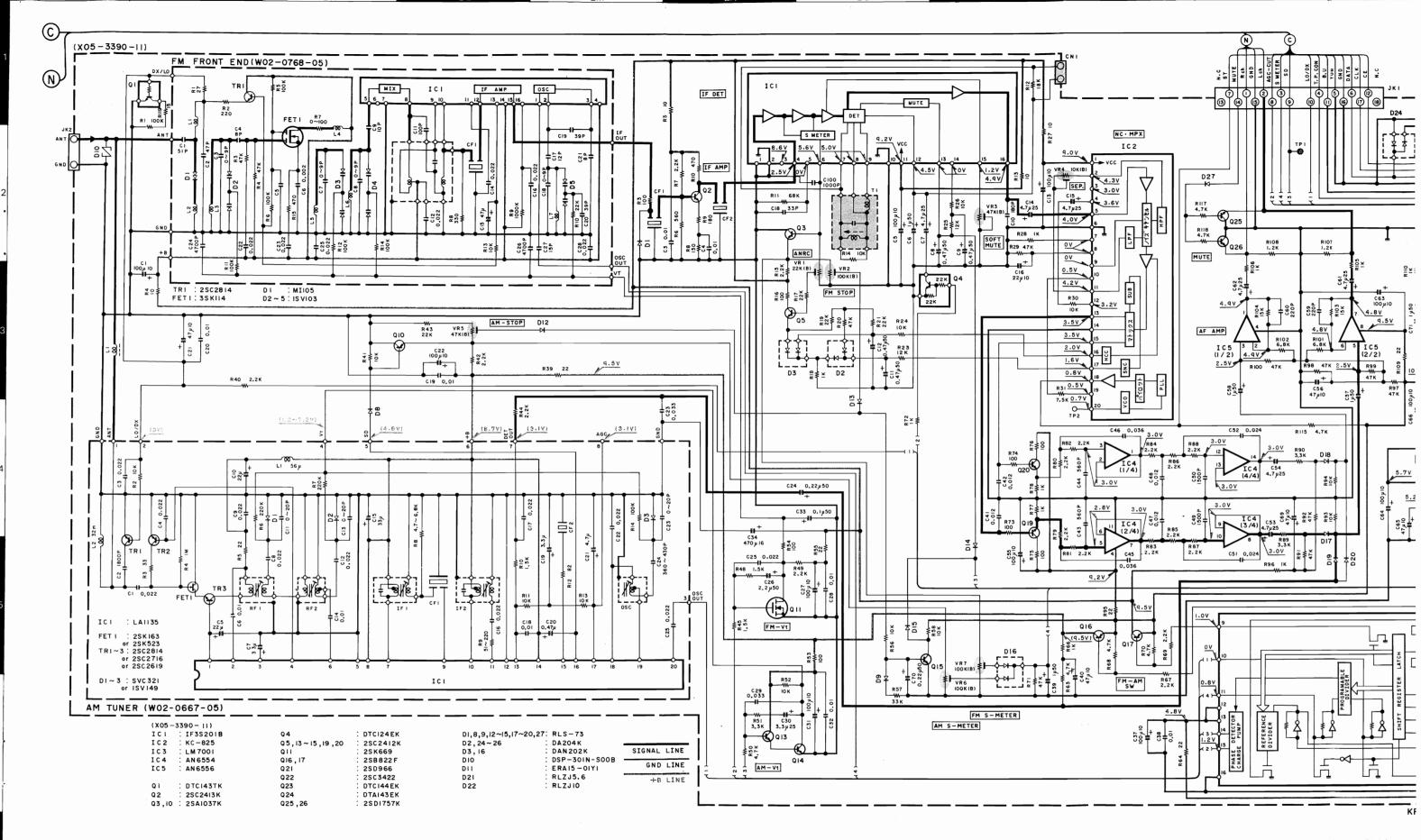
 Les tensions c.c. doivent être measurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen. Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geräten u.U. geringfügig.











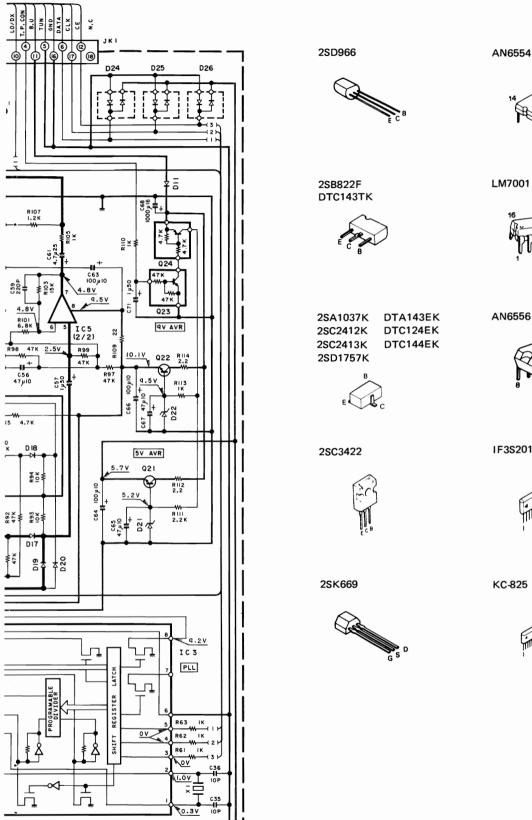
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Andicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

 DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units. Les tensions c.c. doivent être measurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

 Die angegebenen Gleichspanni einem hochohmigen. Voltme schwanken die Meßwerte aufgr zwischen einzelnen instrument geringfügig.

IF3S201B

KC-825

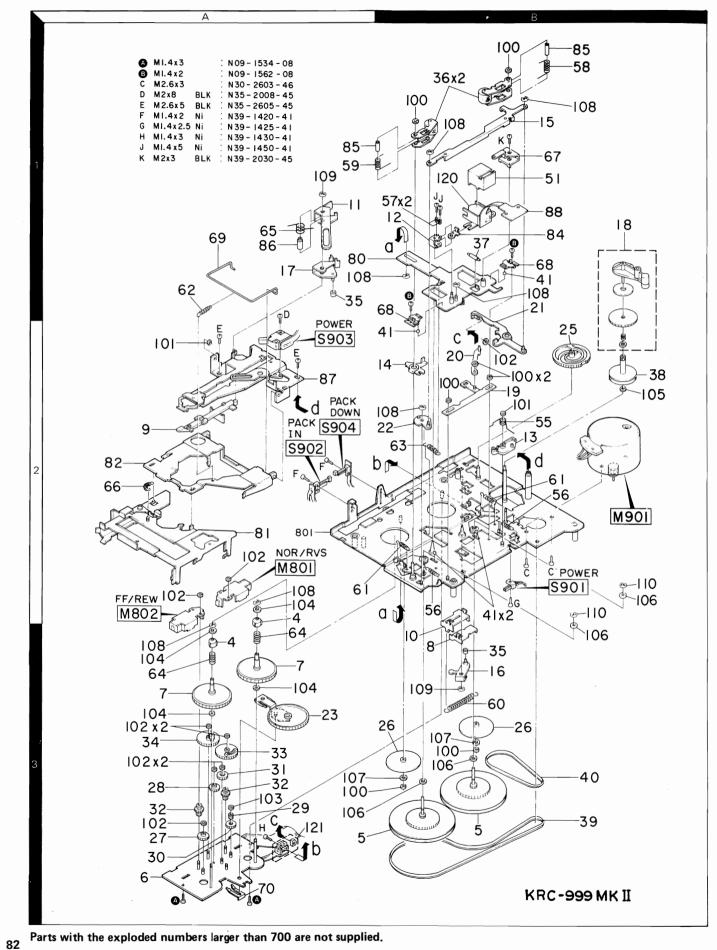


angegebenen Gleichspannungswerte wurden mit m hochohmigen. Voltmeter gemessen. Dabei vanken die Meßwerte aufgrund von Unterschieden schen einzelnen instrumenten oder Geräten u.U. ngfügig.

KRC-999MKII(K)(4/4)

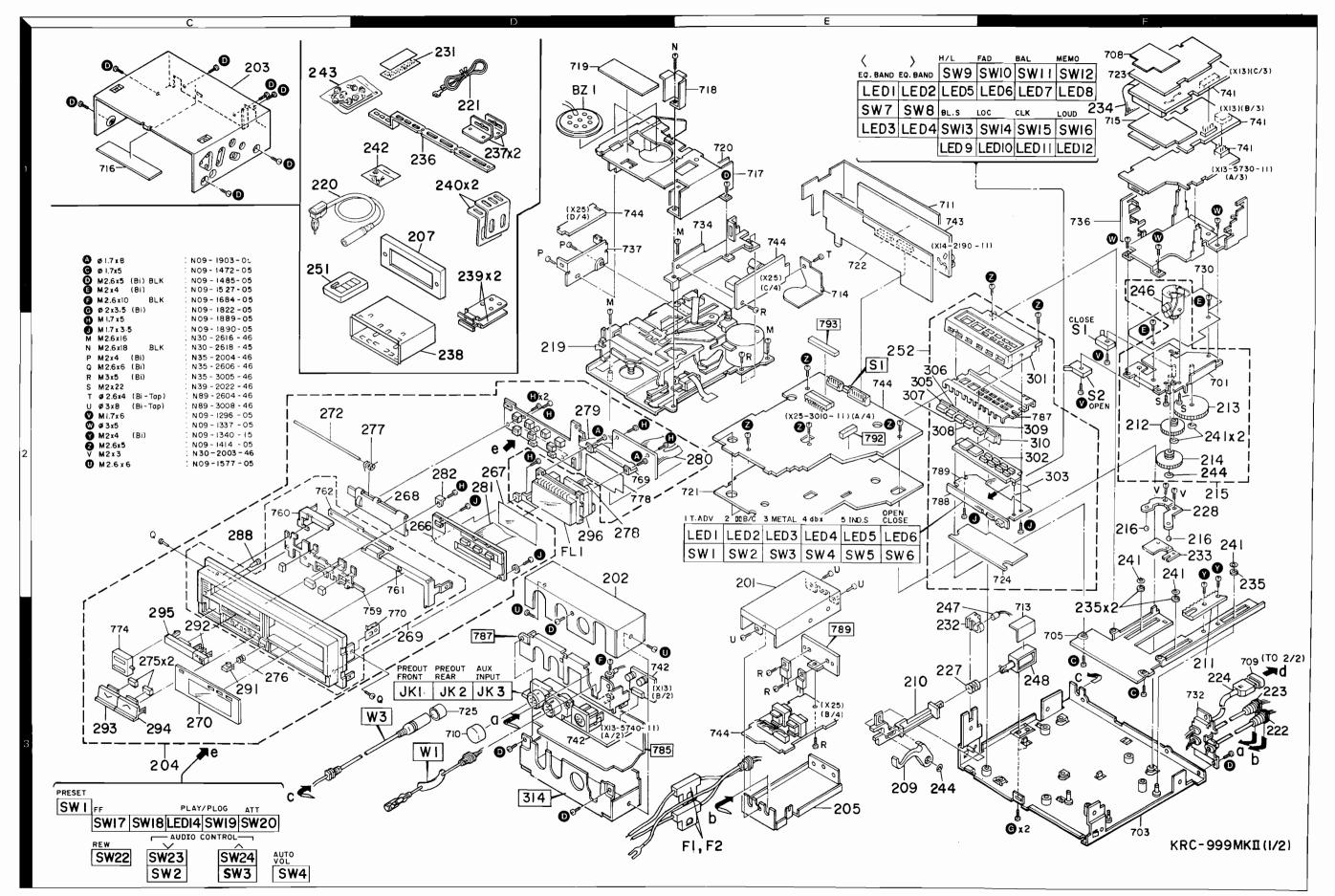


KRC-999II **EXPLODED VIEW (MECHANISM)**



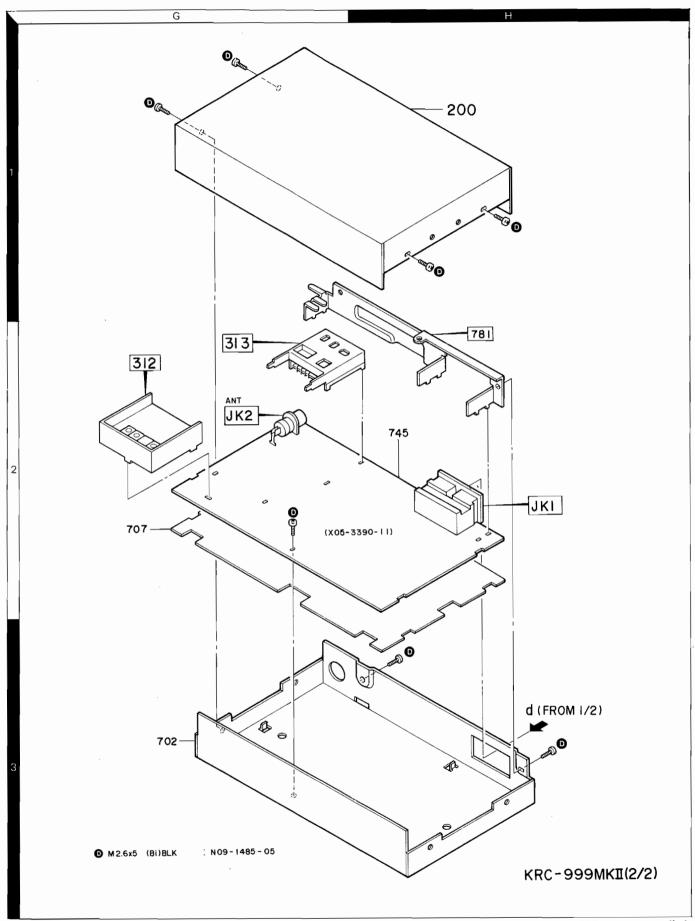
KRC-999II KRC-999II

EXPLODED VIEW (UNIT)



KRC-999II KRC-999II

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. I	No.	Address	New Parts	Parts No.	Description	Desti- nation	Re-
参照书	番号	位 置	新	部品番号	部 品 名/規 格		備考
				KI	RC-999II		
200 201 202 203 204		1H 2E 2D 10 30	* *	A01-1571-03 A01-1453-13 A01-1569-03 A01-1576-02 A20-5295-05	METALLIC CABINET METALLIC CABINET(ELECTRIC UNIT METALLIC CABINET(ELECTRIC UNIT METALLIC CABINET(TUNER) PANEL ASSY		
205		3E		A10-0851-13	CHASSIS (ELECTRIC UNIT)		
207		1 D		801-0373-03 846-0100-10 846-0118-03 850-6914-10 858-0377-04	PANEL ESCUTCHE®N WARRANTY CARD QUESTI®NNAIRE CARD INSTRUCTI®N MANUAL(ENG,FRE) CAUTI®N CARD	K	
			*	858-0846-14 858-0865-04	CAUTION CARD CAUTION CARD	М	
C1 , C3	2			CEO4CWOJ470M CEO4KW1C222M	ELECTR® 47UF 6.3WV ELECTR® 2200UF 16WV		
209 210 211 212 213		3E 3E 3F 2F 2F		D10-1933-04 D10-1934-03 D13-0260-04 D13-0264-04 D13-0265-04	ARM (PLUNGER) LEVER (PLUNGER) LACK (GEAR) GEAR (D19-0072-04ASY GEAR		
214 215 216 219		2F 2F 2F 2D		D19-0072-04 D40-0355-03 D90-0026-05 D40-0341-05	CLUTCH ASSY DRIVE MECHANISM ASSY STEEL BALL (3/32) CASSETTE MECHANISM ASSY		
220 221 222 223 224		1A 1D 3F 3F 3F 3F		E30-2260-15 E30-0893-05 E30-2326-05 E30-2325-05 E30-2324-05	CORD WITH PLUG (ANT) GROUND WIRE CORD WITH CONNECTOR CORD WITH CONNECTOR CORD WITH PLUG	K	
227 2 28		3E 2F		601-2049-04 602-0200-14	COMPRESSION SPRING(PLUNGER) FLAT SPRING		
231		10	* * * *	H30-0051-05 H01-7625-04 H03-0935-04 H10-3450-02 H10-3451-02	MAGIC TAPE ITEM CARTON CASE OUTER CARTON CASE POLYSTYRENE FOAMED FIXTURE(B) POLYSTYRENE FOAMED FIXTURE(T)		
			*	H12-1176-04 H25-0002-03 H25-0112-04 H25-0181-04 H25-0268-04	PACKING FIXTURE PRØTECTIØN BAG (100X250) PRØTECTIØN BAG (180X250X0.05) PRØTECTIØN BAG (150X260X0.05) PRØTECTIØN BAG		
232 233 234 235 236		3E 2F 1F 2F,3F 1D		J19-2823-04 J21-3622-04 J25-5639-04 J31-0249-04 J54-0068-03	HØLDER (CØNDENSER MICRØPHØNE) MØUNTING HARDWARE PRINTED WIRING BØARD(FPC) CØLLAR STAY		
237 238 239 240		1D 2D 1D 1D		J21-3732-05 J21-3644-22 J21-3645-04 J21-3801-04 J61-0067-05	MBUNTING HARDWARE MBUNTING HARDWARE ASSY MBUNTING HARDWARE MBUNTING HARDWARE WIRE BAND		

E: Scandinavia & Europe K: USA

U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

P: Canada



★ New Parts

Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address		Parts No.	Description	Re-
参照番号	位置	Parts 新	部品番号	部品名/規格	marks 備考
241 242 243 244 0	2F 1D 1C 3E,2F 3F	*	N19-0375-04 N99-0248-15 N99-0212-25 N19-0374-04 N09-1472-05	FLAT WASHER SCREW SET SCREW SET FLAT WASHER TAPTITE SCREW (Ø1.7X5)	
E. F G U V	1F.2F 3D 3F 3D 2F		N09-1527-05 N09-1684-05 N09-1822-05 N09-1577-05 N09-1296-05	TAPTITE SCREW (M2X4) TAPTITE SCREW (M2.6X10) STEPPED SCREW (Ø2X3.5) TAPTITE SCREW (M2.6X6) SB MACHINE SCREW (M1.7X6)	
W Y Z	1F 2F 2E,1F		NO9-1337-05 NO9-1340-15 NO9-1414-05	TAPTITE SCREW (Ø3X5) MACHINE SCREW (M2X4) TAPTITE SCREW (M2.6X5)	
S1 ,2	2F	*	S46-1076-05	LEAF SWITCH (@PEN/CL@SE)	
246 247 248 8Z1	1F 3E 3F 1D		T42-0067-14 T91-0036-05 T94-0098-15 T95-0032-05	MØTØR ASSY ELECTRØSTATIC MICRØPHØNE MAGNETIC PLUNGER PIEZØELECTRIC VIBRATØR	
FL1	SD		FIPBAW12Y	FLUGRESCENT INDICATOR TUBE	
251 252	10 2E	*	WO3-1440-05 WO3-1444-05	REMOTE CONTROLLER SWITCH BOX	
			PANEL AS	S'Y (A20-5295-05)	
266 267 268 269 270	2D 2D 2D 3D 3C	* * * *	838-0095-08 811-0173-08 838-0094-08 801-0376-05 810-0916-08	LED DISPLAY ASSY FILTER (PINK) LED DØØR ASSY PANEL ESCUTCHEØN ASSY FRØNT GLASS	
272	sc		D21-1418-08	EXTENSION SHAFT	
275 276 277	30 30 20		G11-1240-08 G01-2124-08 G01-2125-08	CUSHION COMPRESSION SPRING(AUTO VOL) TORSION COIL SPRING(DOOR)	
278 279 280 281 282	2D 2D 2E 2D 2D		J25-5767-08 J25-5753-08 J25-5754-08 J25-5755-08 J21-5120-08	PRINTED WIR)NG BBARD (FPC4) PRINTED WIRING BBARD (FPC1) PRINTED WIRING BBARD (FPC2) PRINTED WIRING BBARD (FPC3) MBUNTING HARDWARE	
288 291 292 293 294	20 30 30 30 30 30		K27-1827-08 K27-1830-08 K27-1831-08 K27-1832-08 K27-1833-08	KNØB(BUTTØN) RESET KNØB(BUTTØN) AUTØ VØL KNØB(BUTTØN) ATT KNØB(BUTTØN) DØWN KNØB(BUTTØN) UP	
2 9 5	30		K27-1834-08	KN®B(BUTT®N) PLAY/PR®G	
A H J	2D 2D 2D		N09-1903-05 N09-1889-05 N09-1890-05	SCREW (Ø1.7X8) SCREW (Ø1.7X5) SCREW (Ø1.7X3.5)	
LED14	1 D		B30-1202-05	LED(AY3432S) PLAY/PR0G	
- 			CE04CW1HR47M CE04DW1C47OM CK73FF1H103K	ELECTR® 0.47UF 50WV ELECTR® 47UF 16WV CHIP C 0.010UF K	

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii) T: England

M: Other Areas

UE: AAFES(Europe)



→ New Parts

Parts Without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address		Parts No.	Description	Desti- Re-
参照番号	位 置	Parts 新	部品番号	部 品 名/規 格	nation mar. 仕 向備者
			CK73FF1H152K CK73FF1H223K C90-1263-05 C90-1263-05	CHIP C 1500PF K CHIP C 0.022UF K ELECTRO 100UF 16WV ELECTRO 100UF 16WV	
			RK73EB2B103J RK73EB2B104J RK73EB2B183J RK73EB2B220J RK73EB2B271J	CHIP R 10K J 1/8W CHIP R 100K J 1/8W CHIP R 18K J 1/8W CHIP R 22 J 1/8W CHIP R 270 J 1/8W	
-			RK73EB2B471J RK73EB2B514J	CHIP R 470 J 1/8W CHIP R 510K J 1/8W	
SW1 -4 SW17-20 SW22-24	30 30 30		\$40-1096-05 \$40-1114-05 \$40-1114-05	PUSH SWITCH(PRESET,UP,D0WN,AV) PUSH SWITCH(PLAY,PR0G,ATT,FF) PUSH SWITCH(REW,AUDI0 C0NTR0L)	
IC1			GU1X-78C LC7565A	IC IC(GRAPHIC EQ FL DISPLAY DR)	
296	2D		W02-0792-05	D/D CONVERTER	
			SWITCH BO	OX (W03-1444-05)	
301	2F	*	A02-1086-08	PLASTIC CABINET	
LED1-12 LED1-6	1E,1F 2E		B30-1201-05 B30-1205-05	LED (AY1101P) LED (AY1102P)	
302	2F		E29-0182-08	CONDUCTIVE RUBBER	
303	2F		J25-5758-08	PRINTED WIRING BOARD(FPC)	
305 304 307 308 309	2E 2E 2E 2E 2F		K27-1837-08 K27-1838-08 K27-1839-08 K27-1840-08 K27-1841-08	KNØB(BUTTØN) 1 KNØB(BUTTØN) 2 KNØB(BUTTØN) 3 KNØB(BUTTØN) 4 KNØB(BUTTØN) 5	
31.0	2F		K27-1826-08	KNØB(BUTTØN) ØPEN/CLØSE	
J	2E,2F		N09189005	SCREW (Ø1.7X3.5)	
-			RD41DB2B271J	CYLND CHIP R 270 J 1/8W	
SW1-6 SW7-16	2E 1E,1F		\$40-1096-05 \$40-1096-05	PUSH SWITCH PUSH SWITCH	
			TUNER UN	NIT (X05-3390-11)	
C1 C3 ,4 C5 C6 C7			CE04DW1A101M CK41DY1C103M CE04DW1A101M C90-0824-05 C90-0482-05	ELECTR® 100UF 10WV CYLND CHIP C 0.010UF M ELECTR® 100UF 10WV ELECTR® 1UF 50WV ELECTR® 4.7UF 25WV	
C8 C9 C10 C11 C12			CEO4DW1HR47M CEO4DW1HR47M CK41DB1H181K CEO4DW1HR47M CEO4DW1HR47M	ELECTR® 0.47UF 50WV ELECTR® 0.47UF 50WV CYLND CHIP C 180PF K ELECTR® 0.47UF 50WV ELECTR® 0.47UF 50WV	
C13 C14 ,15 C16 C18			CEO4DW1A101M CEO4DW1E4R7M CEO4DW1A22OM CC41DSL1H33OJ	ELECTRN 100UF 10WV ELECTRN 4.7UF 25WV ELECTRN 22UF 10WV CYLND CHIP C 33PF J	

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参照番号	位 置	Parts 新	部品番号	部品名/規格	nation marks 仕 向 備考
C19 ,20 C21 C22 C23 C24		*	CK41DY1C103M CE04DW1A470M CE04DW1A101M CK73EB1H333K CE04DW1HR22M	CYLND CHIP C 0.010UF M ELECTR® 47UF 10WV ELECTR® 100UF 10WV CHIP C 0.033UF K ELECTR® 0.22UF 50WV	
C25 C26 C27 C28 C29			CK41DF1E223Z CEO4DW1H2R2M CEO4DW1A1O1M CK73FB1H1O3K CK73EB1H333K	CYLND CHIP C 0.022UF Z ELECTRO 2.2UF 50WV ELECTRO 100UF 10WV CHIP C 0.010UF K CHIP C 0.033UF K	
030 031 032 033 034		*	CE04DW1E3R3M CE04DW1A101M CK41DY1C103M CE04DW1HOR1M CE04DW1C471M	ELECTR® 3.3UF 25WV ELECTR® 100UF 10WV CYLND CHIP C 0.010UF M ELECTR® 0.1UF 50WV ELECTR® 470UF 16WV	
035 +36 037 038 039 040			CC41DSL1H10OJ CEO4DW1A1O1M CK41DY1C1O3M CEO4DW1HO1OM CEO4DW1A47OM	CYLND CHIP C 10PF J ELECTRÑ 100UF 10WV CYLND CHIP C 0.010UF M ELECTRÑ 1.0UF 50WV ELECTRÑ 47UF 10WV	
C41 ,42 C43 ,44 C45 ,46 C47 ,48 C49 ,50			CF92V1H123J CK41DB1H561K CF92V1H363J CF92V1H123J CF92V1H152J	MF 0.012UF J CYLND CHIP C 560PF K MF 0.036UF J MF 0.012UF J MF 1500PF J	
C51 ,52 C53 ,54 C55 C56 C57 ,58			CF92V1H243J CE04DW1E4R7M CE04DW1A101M CE04DW1A47OM CE04DW1H010M	MF 0.024UF J ELECTRØ 4.7UF 25WV ELECTRØ 100UF 10WV ELECTRØ 47UF 10WV ELECTRØ 1.0UF 50WV	
C59 ,60 C61 ,62 C63 ,64 C65 C66			CK41DB1H221K CEO4DW1E4R7M CEO4DW1A1O1M CEO4DW1A47OM CEO4DW1A1O1M	CYLND CHIP C 220PF K ELECTR® 4.7UF 25WV ELECTR® 100UF 10WV ELECTR® 47UF 10WV ELECTR® 100UF 10WV	
C67 C68 C69 C70 C71		*	CEO4DW1A470M CEO4DW1C1O2M CEO4DW1A470M CEO4DW1HR22M CEO4DW1HO1OM	ELECTR® 47UF 10WV ELECTR® 1000UF 16WV ELECTR® 47UF 10WV ELECTR® 0.22UF 50WV ELECTR® 1.0UF 50WV	
C100			CK73FB1H102K	CHIP C 1000PF K	
JK1 JK2	2H 2G	*	E08-1803-05 E04-0018-05	RECTANGULAR RECEPTACLE RF CNAXIAL CABLE RECEPTACLE	
CF1 ,2 L1 T1 X1			L72052305 L39012905 L30046215 L77111005	CERAMIC FILTER TRAP COIL FM IFT CRYSTAL RESONATOR(7.2MHZ)	
D	10,3D		N09-1485-05	TAPTITE SCREW (M2.6X5)	
J1 -22 J23 -33 J34 ,35 J37 R1			R92-0338-05 R92-0670-05 R92-0338-05 R92-0338-05 RD41DB2B104J	CLYND CHIP R O NHM CHIP R O NHM CLYND CHIP R O NHM CLYND CHIP R O NHM CYLND CHIP R 100K J 1/8W	

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R3 R4 •5 R6 R7 R8		RD41DB2B101J RD41DB2B100J RK73FB2A561J RD41DB2B222J RD41DB2B151J	CYLND CHIP R 100 CYLND CHIP R 10 CHIP R 560 CYLND CHIP R 2.2K CYLND CHIP R 150	J 1/8W J 1/8W J 1/10W J 1/8W J 1/8W	
R9 R10 R11 R12 R13		RD41DB2B181J RD41DB2B471J RK73EB2A6B3J RK73EB2A1B3J RK73EB2A1D0J	CYLND CHIP R 180 CYLND CHIP R 470 CHIP R 68K CHIP R 18K CHIP R 10	J 1/8W J 1/8W J 1/10W J 1/10W J 1/10W	
R14 R15 R16 R17 R18		RK73FB2A103J RK73FB2A222J RK73FB2A101J RK73FB2A223J RK73FB2A102J	CHIP R 10K CHIP R 2.2K CHIP R 100 CHIP R 22K CHIP R 1.0K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R19 R20 R21 R23 R24		RK73FB2A223J RK73FB2A473J RK73FB2A223J RD41DB2B123J RD41DB2B103J	CHIP R 22K CHIP R 47K CHIP R 22K CYLND CHIP R 12K CYLND CHIP R 10K	J 1/10W J 1/10W J 1/10W J 1/8W J 1/8W	
R25 R26 R27 R28 R29		RK73FB2A123J RK73FB2A103J RD41DB2B100J RK73FB2A102J RK73FB2A473J	CHIP R 12K- CHIP R 10K CYLND CHIP R 10 CHIP R 1.0K CHIP R 47K	J 1/10W J 1/10W J 1/0W J 1/10W J 1/10W	
R30 R31 R39 R40 R41		RK73FB2A103J RD41DB2B752J RD41DB2B220J RD41DB2B222J RD41DB2B103J	CHIP R 10K CYLND CHIP R 7.5K CYLND CHIP R 22 CYLND CHIP R 2.2K CYLND CHIP R 10K	J 1/10W J 1/8W J 1/8W J 1/8W J 1/8W	
R42 R43 R44 R45 R48		RD41DB2B222J RD41DB2B223J RD41DB2B222J RD41DB2B152J RD41DB2B152J	CYLND CHIP R 2.2K CYLND CHIP R 22K CYLND CHIP R 2.2K CYLND CHIP R 1.5K CYLND CHIP R 1.5K	J 1/8W J 1/8W J 1/8W J 1/8W J 1/8W	
R49 R50 R51 R52 R53 •54		RD41DB2B222J RD41DB2B472J RD41DB2B332J RD41DB2B103J RD41DB2B101J	CYLND CHIP R 2.2K CYLND CHIP R 4.7K CYLND CHIP R 3.3K CYLND CHIP R 10K CYLND CHIP R 100	J 1/8W J 1/8W J 1/8W J 1/8W J 1/8W	
R55 R56 R57 R58 R61 -63		RD41DB2B220J RD41DB2B103J RD41DB2B333J RD41DB2B103J RD41DB2B102J	CYLND CHIP R 22 CYLND CHIP R 10K CYLND CHIP R 33K CYLND CHIP R 10K CYLND CHIP R 1.0K	J 1/8W J 1/8W J 1/8W J 1/8W J 1/0W	
R64 R65 R66 R67 R68		RD41DB2B220J RD41DB2B472J RD41DB2B102J RD41DB2B222J RD41DB2B472J	CYLND CHIP R 22 CYLND CHIP R 4.7K CYLND CHIP R 1.0K CYLND CHIP R 2.2K CYLND CHIP R 4.7K	J 1/8W J 1/8W J 1/8W J 1/8W J 1/8W	
R69 R70 R71 R72 R73 -76		RD41DB2B222J RD41DB2B472J RD41DB2B473J RD41DB2B102J RD41DB2B101J	CYLND CHIP R 2.2K CYLND CHIP R 4.7K CYLND CHIP R 47K CYLND CHIP R 1.0K CYLND CHIP R 100	J 1/8W J 1/8W J 1/8W J 1/8W J 1/8W	

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R77 ,78 R79 -88 R89 ,90 R91 ,92 R93 ,94			RD41DB2B102J RD41DB2B222J RD41DB2B332J RD41DB2B473J RD41DB2B103J	CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 3.3K J 1/8W CYLND CHIP R 47K J 1/8W CYLND CHIP R 10K J 1/8W	
R95 R96 R97 -100 R101,102 R103,104			RD41DB2B22OJ RD41DB2B1O2J RD41DB2B473J RD41DB2B682J RD41DB2B153J	CYLND CHIP R 22 J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 47K J 1/8W CYLND CHIP R 6.8K J 1/8W CYLND CHIP R 15K J 1/8W	
R105,106 R107,108 R109 R110 R111			RD41DB2B102J RD41DB2B122J RD41DB2B220J RD41DB2B102J RD41DB2B222J	CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 1.2K J 1/8W CYLND CHIP R 22 J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 2.2K J 1/8W	
R112 R113 R114 R115 R117,118			RD41DB2B2R2J RD41DB2B102J RD41DB2B2R2J RD41DB2B472J RD41DB2B472J	CYLND CHIP R 2.2 J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 2.2 J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 4.7K J 1/8W	
R119 VR1 VR2 VR3 VR4		*	RK73FB2A150J R12-3072-05 R12-5044-05 R12-3099-05 R12-3096-05	CHIP R 15 J 1/10W TRIMMING POT. (22K)ANRC TRIMMING POT. (100K)FM STOP TRIMMING POT. (47K)SOFT MUTE TRIMMING POT. (10K)SEPARATION	
VR5 VR6 ,7			R12-3099-05 R12-5046-05	TRIMMING POT. (47K)AM STOP TRIMMING POT. (100K)S-METER	
D1 D2 D3 D8 ,9			RLS-73 DA204K DAN202K RLS-73 DSP-301N-S00B	DINDE DINDE DINDE DINDE SURGE ABSNRBER	
D11 D12 -15 D16 D17 -20 D21			ERA15-01Y1 RLS-73 DAN202K RLS-73 RLZJ5.6	DINDE DINDE DINDE DINDE DINDE ZENER DINDE	
D22 D24 -26 D27 IC1 IC2		*	RLZJ10 DA204K RLS-73 IF3S201B KC-825	ZENER DIØDE DIØDE DIØDE IC(FM IF AMP/ DET)/ MPX) IC(NØISE CANCELLER/ MPX)	
IC3 IC4 IC5 Q1 Q2			LM7001 AN6554 AN6556 DTC143TK 2SC2413K	IC(PLL FREQUENCY SYNTHESIZER) IC(®P AMP X4) IC(®P AMP X2) DIGITAL TRANSIST®R TRANSIST®R	
Q3 Q4 Q5 Q10 Q11		*	2SA1037K DTC124EK 2SC2412K 2SA1037K 2SK669	TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR TRANSISTØR FET	
Q13 -15 Q16 ,17			2SC2412K 2SB822F	TRANSISTØR TRANSISTØR	

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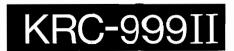
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参照番号	位置新		部品名/規格	nation mark 仕 向 備考
019 ,20 021 022 023 024		2SC2412K 2SD966 2SC3422 DTC144EK DTA143EK	TRANSISTØR TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR	
025 +26		2SD1757K	TRANSIST®R	
312 313	2G 2G *	W02-0667-05 W02-0768-05	TUNER ASSY FM FRØNT-END ASSY	
		SUB-CIRCUIT	UNIT (X13-5730-11)	
314	3D	A10-0995-03	CHASSIS	
C1 •2 C4 C5 C6 C7 •8		CE04CW1H2R2M CE04CW1H2R2M CE04CW1C100M CK73FB1H103K CE04MW1E4R7M	ELECTR® 2.2UF 50WV ELECTR® 2.2UF 50WV ELECTR® 10UF 16WV CHIP C 0.010UF K ELECTR® 4.7UF 25WV	
C9 ,10 C11 ,12 C13 -16 C17 C18	*	CEO4CW1H2R2M CK41DB1H101K CEO4MW1H2R2M CEO4CW1A47OM CEO4DW1A47OM	CLECTR0 2.2UF 50WV CYLND CHIP C 100PF K ELECTR0 2.2UF 50WV ELECTR0 47UF 10WV ELECTR0 47UF 10WV CLECTR0 47UF 10WV 47UF 4	
C19 C20 C21 C22 C25		CE04CW1C220M CE04DW1C221M C90-1263-05 CE04DW1A221M CE04CW1H010M	ELECTR® 22UF 16WV ELECTR® 22OUF 16WV ELECTR® 10OUF 16WV ELECTR® 22OUF 10WV ELECTR® 1.OUF 50WV	
C26 ,27 C28 C29 ,30 C35 -37		CK41DB1H101K CE04CW1C10OM CE04DW1A101M CE04DW1A221M	CYLND CHIP C 100PF K ELECTR® 10UF 16WV ELECTR® 100UF 10WV ELECTR® 220UF 10WV	
CN1 CN2 CN3 CN4 CN5	* * * * *	E10-0905-05 E40-3520-05 E40-3528-05 E40-3540-05 E10-1906-05	FLAT CABLE CONNECTOR PIN ASSY PIN ASSY SOCKET FOR PIN ASSY FLAT CABLE CONNECTOR	
EN6 CN7 CN8 CN9 W1	* * *	E10-1606-05 E10-2606-05 E10-3006-05	SØCKET FØR PIN ASSY FLAT CABLE CØNNECTØR FLAT CABLE CØNNECTØR FLAT CABLE CØNNECTØR WIRING HARNESS	
W2	*	E31-4063-05	WIRING HARNESS	
L1 ×1		L39-0136-15 L78-0202-05	TRAP COIL RESONATOR (400KHZ)	
J1 J2 -4 J5 -7 J8 J9 -11		R92-0338-05 R92-0670-05 R92-0338-05 R92-0670-05 R92-0338-05	CLYND CHIP R O 0HM CHIP R O 0HM CLYND CHIP R O 0HM CHIP R O 0HM CHIP R O 0HM	
J12 +13 J15 -19 J20 J22 J33		R92-0670-05 R92-0338-05 R92-0670-05 R92-0338-05 R92-0338-05	CHIP R O SHM CLYND CHIP R O SHM CHIP R O SHM CLYND CHIP R O SHM CLYND CHIP R O SHM	K

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R1 ,2 R3 R5 R6 R7 ,8		RD41DB2B223J RD41DB2B224J RD41DB2B223J RD41DB2B102J RD41DB2B473J	CYLND CHIP R 22K J 1/8W CYLND CHIP R 22DK J 1/8W CYLND CHIP R 22K J 1/8W CYLND CHIP R 1. DK J 1/8W CYLND CHIP R 47K J 1/8W	
R9 R10 +11 R12 +13 R14 +15 R16		RK73FB2A472J RK73FB2A102J RK73FB2A223J RD41DB2B222J RD41DB2B473J	CHIP R 4.7K J 1/10W CHIP R 1.0K J 1/10W CHIP R 22K J 1/10W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 47K J 1/8W	
R17 R18 R19 R21 R22		RK73FB2A102J RK73FB2A223J RD41DB2B222J RD41DB2BB24J RK73FB2A824J	CHIP R 1.0K J 1/10W CHIP R 22K J 1/10W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 820K J 1/8W CHIP R 820K J 1/10W	
R23 -26 R27 -29 R30 R31 R32 -33		RD41DB2B824J RK73FB2A824J RK73FB2A104J RD41DB2B104J RD41DB2B824J	CYLND CHIP R 820K J 1/8W CHIP R 820K J 1/10W CHIP R 100K J 1/10W CYLND CHIP R 100K J 1/8W CYLND CHIP R 820K J 1/8W	
R34 R35 R36 R37 R38		RK73FB2A824J RD41DB2B824J RK73FB2A824J RK73FB2A104J RD41DB2B104J	CHIP R 820K J 1/10W CYLND CHIP R 820K J 1/8W CHIP R 820K J 1/10W CHIP R 100K J 1/10W CYLND CHIP R 100K J 1/8W	
R40 R41 R42 R43 R44		RK73FB2A472J RD41DB2B222J RD41DB2B105J RD41DB2B222J RD41DB2B102J	CHIP R 4.7K J 1/10W CYLND CHIP R 2.2K J 1/0W CYLND CHIP R 1.0M J 1/8W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 1.0K J 1/8W	
R45 -49 R50 R51 -61 R62 R63 -65		RD41DB2B1O4J RK73FB2A102J RD41DB2B102J RK73FB2A102J RD41DB2B102J	CYLND CHIP R 100K J 1/8W CHIP R 1.0K J 1/10W CYLND CHIP R 1.0K J 1/8W CHIP R 1.0K J 1/10W CYLND CHIP R 1.0K J 1/18W	
R66 R67 R68 ,69 R70 -73 R74 -85	*	RD41DB2B332J RD41DB2B222J RD41DB2B1R1J RD41DB2B102J RD41DB2B101J	CYLND CHIP R 3.3K J 1/8W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 1.1 J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 100 J 1/8W	
R86 -95 R96 R97 R98 R99 -101		RD41DB2B1O2J RK73FB2A1O2J RD41DB2B1O2J RK73FB2A1O2J RD41DB2B1O2J	CYLND CHIP R 1.0K J 1/8W CHIP R 1.0K J 1/10W CYLND CHIP R 1.0K J 1/8W CHIP R 1.0K J 1/10W CYLND CHIP R 1.0K J 1/8W	
R102-109 R110-113 R114 R115		RD41DB2B1O4J RD41DB2B472J RK73FB2A472J RD41DB2B472J	CYLND CHIP R 100K J 1/8W CYLND CHIP R 4.7K J 1/8W CHIP R 4.7K J 1/10W CYLND CHIP R 4.7K J 1/8W	
D1 ,2 D3 D4 D6 -9 D10 -16		RLS-73 RLZJ4. 7 RLS-73 RLS-73 DAN202K	DINDE ZENER DINDE DINDE DINDE DINDE	

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D17 D20 -31 D33 D34 -41 D35 -41			RLS-73 RLS-73 RLS-73 RLS-73 RLS-73	DINDE DINDE DINDE DINDE DINDE	K M K	
D42 IC1 IC2 IC3 IC4		. *	DAN202K KC-840 LC7523M PST520D LC7060AN	DINDE IC(GRAPHIC EQULIZER) IC(7CH GRAPHIC EQUALIZER) IC(LNW PNWER RESET) IC(GRAPHIC EQUALIZER)		
IC5 -9 IC10 IC11,12 IC13 IC14		*	UPD4081BG UPD4028BG BA618F TD62104F UPD4028BG	IC(AND X4) IC(BCD-TN-DECIMAL DECNDER) IC(LED SEGMENT DRIVER) IC(DARLINGTNN DRIVER) IC(BCD-TN-DECIMAL DECNDER)		
IC15,16 Q1 -4 Q5 Q9 Q10			UPD4081BG 2SC2412K 2SB822F DTA124EK DTC124EK	IC(AND X4) TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR		
011 012 013 014 -19			2SB822F DTA124EK DTC124EK 2SC2412K	TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR		
				T UNIT (X13-5740-11)		
314 C1 C2 C3 C4 C5	3D	*	A10-0995-03 C90-0478-05 CF92V1H104J CE04DW1C102M CE04MW0J470M C90-1408-05	CHASSIS ELECTR® 10UF 16WV MF 0.10UF J ELECTR® 1000UF 16WV ELECTR® 47UF 6.3WV ELECTR® 220UF 6.3WV		
C6 ,7 C8 ,9 C10 ,11 C12 C13		*	CE04MW1C100M CE04MW0J470M CE04MW1E4R7M C90-0482-05 C92-0004-05	ELECTR® 10UF 16WV ELECTR® 47UF 6.3WV ELECTR® 4.7UF 25WV ELECTR® 4.7UF 25WV CHIP TAN 1UF 16WV		
CN1 CN2 CN3 JK1 ,2 JK3	3D 3D	* *	E40-3250-05 E40-3252-05 E40-3395-05 E06-0814-05 E06-0813-05	PIN ASSY PIN ASSY PIN ASSY CYLINDRICAL RECEPTACLE(PREDUT) REC/PLAY JACK (TUNER INPUT)		
W1 W2	3D	*	E30-2241-05 E31-3574-05	DC CORD WIRING HARNESS		
D	3D		N09-1485-05	TAPTITE SCREW (M2.6X5)		
J2 J9 ,10 J11 -13 J14 J15 ,16			R92-0670-05 R92-0338-05 R92-0670-05 R92-0338-05 R92-0670-05	CHIP R O NHM CLYND CHIP R O NHM CHIP R O NHM CLYND CHIP R O NHM CHIP R O NHM		
J18 J19 -22 J23 J24 -28			R92-0670-05 R92-0338-05 R92-0670-05 R92-0338-05	CHIP R O SHM CLYND CHIP R O SHM CHIP R O SHM CLYND CHIP R O SHM		

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Part Color Part	Ref. No.	Address New		Description	_	Re-
R2	参照番号			部品名/規	格	marks 備考
RB RP RF3FB2A323	R1 R2 ,3 R4		RD14DB2H561J RD41DB2B2O2J RK73FB2A473J	SMALL-RD 560 CYLND CHIP R 2.OK CHIP R 47K	J 1/8W J 1/10W	
R15 - 16 R17 - 18 R17 - 18 R17 - 18 R19 R20 R19 R20 R20 R20 R21 R21 R22 R2223J CHIP R 100 J 1/10W R21 R22 R23 R23223J CHIP R 22K J 1/10W R22 R23 R23 R24102J CHIP R 1. 0K J 1/10W R23 R24102J CHIP R 1. 0K J 1/10W R25 R25 R25 R25 R25 R25 R25 R25 R25 R25	R8 R9 R10 ,11	*	RD14DB2H3R3J RK73FB2A222J RD41DB2B2O2J	SMALL-RD 3.3 CHIP R 2.2K CYLND CHIP R 2.0K	J 1/2W J 1/10W J 1/8W	
RD41DB2B511J CYLND CHIP R 510	R15 ,16 R17 ,18 R19		RK73FB2A101J RK73FB2A103J RD41DB2B471J	CHIP R 100 CHIP R 10K CYLND CHIP R 470	J 1/10W J 1/10W J 1/8W	
D7						
DTC124EK	D7 D8 IC1		RLS-73 RLZJ9.1 KC-855	DIODE ZENER DIODE IC(ISOLATION AMP)		
C1	03 04 05		DTC124EK 2SA1837K 2SC2412K	DIGITAL TRANSISTØR TRANSISTØR TRANSISTØR		
C3			DOLBY NOISE REDU	ICTION UNIT (X14-2190-11)	
C13	C3 C5 +6 C7 +8		CK41DY1C103M CE04MW1E4R7M CC41DSL1H680J	CYLND CHIP C 0.010UF ELECTR® 4.7UF CYLND CHIP C 68PF	M 25WV J	
C23 -26 CE04MW1E4R7M ELECTR® 4. 7UF 25WV C27 C90-1263-05 ELECTR® 100UF 16WV C30 C90-1409-05 ELECTR® 220UF 10WV C31 ,32 C90-1263-05 ELECTR® 100UF 16WV C33 C90-0825-05 ELECTR® 22UF 16WV C34 C90-1263-05 ELECTR® 100UF 16WV C35 ,36 CK73FB1H392K CHIP C 3900PF K C37 ,38 CE04MW1E4R7M ELECTR® 4. 7UF 25WV CN1 E40-3465-05 PIN ASSY ELECTR® 25WV CN2 E40-3467-05 PIN ASSY PIN ASSY CN3 E40-3247-05 PIN ASSY PIN ASSY CN4 E40-3250-05 PIN ASSY PIN ASSY	C13 ,14 C15 ,16 C17 ,18		CE04MW1E4R7M CK41DB1H101K CE04MW1C100M	ELECTR® 4.7UF CYLND CHIP C 100PF ELECTR® 10UF	25WV K 16WV	
C34 C35 +36 C37 +38 CN1 CN1 CN2 CN3 CN3 CN3 CN4 CN4 CN4 CN4 CN4 CN4 CN5 CN5 CN5 CN5 CN6 CN6 CN6 CN7 CN7 CN7 CN7 CN7 CN7 CN7 CN7 CN8 CN8 CN8 CN8 CN8 CN8 CN8 CN8 CN8 CN8	C23 -26 C27 C30		CE04MW1E4R7M C90-1263-05 C90-1409-05	ELECTR® 4.7UF ELECTR® 100UF ELECTR® 220UF	25WV 16WV 10WV	
CN2	C34 C35 ,36		C90-1263-05 CK73FB1H392K	ELECTR® 100UF CHIP C 3900PF	16WV K	
	CN2 CN3 CN4	*	E40-3467-05 E40-3247-05 E40-3250-05	PIN ASSY PIN ASSY PIN ASSY		
CN6 E40-3248-05 PIN ASSY	CN6		E40-3248-05	PIN ASSY		

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X: Australia

M: Other Areas



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Ref. No.	Address New		Description	Desti- Re-
参照番号	位 置 新	部品番号	部品名/規格	nation marks 仕 向 備考
LH1		J19-2826-05	HOLDER	
J1 J4 ,5 J12 R1 ,2 R3 ,4		R92-0670-05 R92-0670-05 R92-0338-05 RK73FB2A223J RK73FB2A104J	CHIP R O SHM CHIP R O SHM CLYND CHIP R O SHM CHIP R 22K J 1/10W CHIP R 100K J 1/10W	
R5 ,6 R7 ,8 R9 ,10 R11 ,12 R13 ,14		RK73FB2A472J RK73FB2A223J RK73FB2A392J RK73FB2A681J RK73FB2A222J	CHIP R 4.7K J 1/10W CHIP R 22K J 1/10W CHIP R 3.9K J 1/10W CHIP R 680 J 1/10W CHIP R 2.2K J 1/10W	
R15 +16 R17 +18 R19 +20 R21 +22 R23 +24	*	RK73FB2A751J RK73FB2A222J RK73FB2A223J RK73FB2A391J RK73FB2A822J	CHIP R 750 J 1/10W CHIP R 2.2K J 1/10W CHIP R 22K J 1/10W CHIP R 390 J 1/10W CHIP R 8.2K J 1/10W	
R25 ,26 R27 ,28 R29 ,30 R31 ,32 R33 ,34		RK73FB2A103J RK73FB2A102J RK73FB2A511J RK73FB2A223J RK73FB2A511J	CHIP R 10K J 1/10W CHIP R 1.0K J 1/10W CHIP R 510 J 1/10W CHIP R 22K J 1/10W CHIP R 510 J 1/10W	
R35 -40 R46 -51 R52 +53 R54 +55 R56 +57		RK73FB2A223J RK73FB2A223J RK73FB2A102J RK73FB2A223J RK73FB2A473J	CHIP R 22K J 1/10W CHIP R 22K J 1/10W CHIP R 1.0K J 1/10W CHIP R 22K J 1/10W CHIP R 47K J 1/10W	
R58 R60 R61 R62 R63 ,64		RK73FB2A103J RK73FB2A121J RK73FB2A102J RK73FB2A331J RK73FB2A103J	CHIP R 10K J 1/10W CHIP R 120 J 1/10W CHIP R 1.0K J 1/10W CHIP R 330 J 1/10W CHIP R 10K J 1/10W	
R65 ,66 R67 ,68 R69 ,70 VR1 ,2 VR3	*	RK73FB2A511J RK73FB2A223J RK73FB2A162J R12-3100-05 R12-1071-05	CHIP R 510 J 1/10W CHIP R 22K J 1/10W CHIP R 1.6K J 1/10W TRIMMING PNT. (10K)PB LEVEL TRIMMING PNT. (2.2K) DBX	
D1 D2 D3 D4 +5 D8 -10		RLZJ5. 1 RLS-73 RLZJ18 DAN202K RLS-73	ZENER DIØDE. DIØDE ZENER DIØDE DIØDE DIØDE	
IC1 IC2 IC2 IC3 IC4	* *	AN6556S BH-2421 NR-9550 KC-877 AN6556S	IC(0P AMP X2) IC(D0LBY) IC(DDLBY) IC(DBX) IC(0P AMP X2)	
IC5 IC6 ,7 Q1 ,2 Q3 Q4	*	KC-855 UPD4066BG 2SD1757K DTC124EK DTC144EK	IC(ISBLATIBN AMP) IC(BILATERAL SWITCH X4) TRANSISTBR DIGITAL TRANSISTBR DIGITAL TRANSISTBR	
05 +6 07 08		DTC124EK DTA124EK DTC124EK	DIGITAL TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR	

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参照番号	位置新	部品番号	部 品 名/規 格	nation marks 仕 向 備考
09 010 011 012		DTA124EK DTC124EK DTA124EK DTC124EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
		1	JNIT (X25-3010-11)	
01 02 03 04 05 ,6	*	CC73FCH1H030C CC73FCH1H100D CE04CW1C4R7M CK73EB1H103K C92-0004-05	CHIP C 3. OPF C CHIP C 10PF D ELECTRO 4. 7UF 16WV CHIP C 0. 010UF K CHIP TAN 1UF 16WV	
C7 CB ,9 C10 C11 C12		C92-0005-05 CC73FCH1H330J CK73EB1H223K C92-0009-05 CK73EB1H103K	CHIP-TAN 2.2UF 6.3WV CHIP C 33PF J CHIP C 0.022UF K CHIP TAN 4.7UF 10WV CHIP C 0.010UF K	
C13 -15 C16 ,17 C18 C19 C20		CE04CW1C100M CE04CW0J470M CK41DY1C103M CE04CW1A220M CE04CW1C100M	ELECTR® 10UF 16WV ELECTR® 47UF 6.3WV CYLND CHIP C 0.010UF M ELECTR® 22UF 10WV ELECTR® 10UF 16WV	
C21 C22 C23 C24 ,25 C26 ,27	*	CE04CW1A101M CE04MW1H010M CE04DW1A101M CK73EF1E104Z CK73FB1H102K	ELECTR® 100UF 10WV ELECTR® 1.0UF 50WV ELECTR® 100UF 10WV CHIP C 0.10UF Z CHIP C 1000PF K	
C2B ,29 C30 C31 C32 ,33 C34 ,35	*	C92-0004-05 CE04MW1H010M CE04CW1A101M CE04MW1E4R7M CK73FB1H102K	CHIP TAN 1UF 16WV ELECTR® 1.OUF 50WV ELECTR® 10OUF 10WV ELECTR® 4.7UF 25WV CHIP C 10OOPF K	
C36 ,37 C38 ,39 C44 ,45 C46 ,47 C48 ,49	*	CEO4MW1C100M CEO4MW1H010M CEO4MW1E4R7M CC41DSL1H33OJ CK73EB1H473K	ELECTR® 10UF 16WV ELECTR® 1.0UF 50WV ELECTR® 4.7UF 25WV CYLND CHIP C 33FF J CHIP C 0.047UF K	
C50 -53 C54 -57 C58 -61 C62 -65 C66		CK41DX1C222M CE04MW1E4R7M CK73FB1H152K CE04MW1C100M CK73EB1H103K	CYLND CHIP C 2200PF M ELECTR® 4.7UF 25WV CHIP C 1500PF K ELECTR® 10UF 16WV CHIP C 0.010UF K	
C67 C68 C69 C70 C71		CK41DB1H102K C92-0002-05 CK73EB1E563K C92-0005-05 CE04CW1C100M	CYLND CHIP C 1000PF K CHIP TAN 0.22UF 35WV CHIP C 0.056UF K CHIP-TAN 2.2UF 6.3WV ELECTRD 10UF 16WV	
C72 C73 C74 ,75 C76 ,77 C80		C92-0003-05 CE04CW1A220M CE04DW1A221M CE04DW1C331M CE04CW1A330M	CHIP TAN 0.47UF 25WV ELECTR® 22UF 10WV ELECTR® 22OUF 10WV ELECTR® 33OUF 16WV ELECTR® 33UF 10WV	
C81 C82 C83 C84 C85		CE04CW1A220M CK73EB1H393K CE04CW1C100M CK41DB1H101K CE04CW1C100M	ELECTR® 22UF 10WV CHIP C 0.039UF K ELECTR® 10UF 16WV CYLND CHIP C 100PF K ELECTR® 10UF 16WV	

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参照番号	位 置	Parts 新	部品番号	部品名/規格	nation 仕 向	mark! 備考
C86 C87 C88 +89 C90 +91 C92		*	CE04CW1HR68M CE04CW1A220M CE04CW1C100M CK41DB1H101K CK73EF1E683Z	ELECTR® 0.68UF 50WV ELECTR® 22UF 10WV ELECTR® 10UF 16WV CYLND CHIP C 100PF K CHIP C 0.068UF Z		
C93 C94 C95 C96 C100			C90-1409-05 CK41DB1H101K C90-1410-05 CE04CW1C100M CE04DW1A101M	ELECTR® 220UF 10WV CYLND CHIP C 100PF K ELECTR® 330UF 6.3WV ELECTR® 10UF 16WV ELECTR® 100UF 10WV		
C101 C102:103 C104:105 C106 C108-111			CE04DW1C100M CF92V1H822J CE04DW1A470M CE04DW1C100M CQ09F51H821JZS	ELECTR® 10UF 16WV MF 8200PF J ELECTR® 47UF 10WV ELECTR® 10UF 16WV P®LYSTY 820PF J		
0120-123 0124:125 0126:127 0128:129 0130			CEO4DW1C471M CK73EB1H1O3K CEO4DW1A1O1M CEO4DW1A471M CEO4CW1C47OM	ELECTR® 470UF 16WV CHIP C 0.010UF K ELECTR® 100UF 10WV ELECTR® 470UF 10WV ELECTR® 47UF 16WV		
C131 C3O3 TC1			CEO4CW1C22OM C92-OOO9-OS CO5-OO94-O5	ELECTRØ 22UF 16WV CHIP TAN 4.7UF 10WV CERAMIC TRIMMER CAPACITØR(20PF		
CN1 CN2 CN3 CN4 CN6			E10-3006-05 E10-0505-05 E40-3253-05 E10-2209-05 E40-3237-05	FLAT CABLE CØNNECTØR FLAT CABLE CØNNECTØR PIN ASSY FLAT CABLE CØNNECTØR PIN ASSY		
CN7 ENB CN9 CN10 CN11		*	E40-3250-05 E40-3256-05 E40-3255-05 E40-3246-05 E40-3488-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY PIN ASSY		
CN13 CN14 CN15 CN17 CN18			E40-3486-05 E40-0587-05 E40-3250-05 E40-3241-05 E40-3166-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY PIN ASSY		
W1 W2 W3 W4 W5	3D 3D	* *	E30-2240-05 E31-4062-05 E30-2242-05 E31-4137-15 E31-3733-05	DC C0RD WIRING HARNESS C0RD WITH PLUG WIRING HARNESS WIRING HARNESS		
F1 ,2			F06-3026-05	FUSE (3A)		
L1 ,2 L3 ,4 L5 ,6 X1 X2			L33-0310-05 L79-0197-05 L40-4791-17 L77-1112-05 L78-0207-05	CHOKE COIL LC FILTER SMALL FIXED INDUCTOR(4.7UH,K) CRYSTAL RESONATOR(4.1943MHZ) RESONATOR (4.194MHZ)		
J1 -37 J52 -54 J55 J56 J57			R92-0338-05 R92-0338-05 R92-0670-05 R92-0338-05 R92-0670-05	CLYND CHIP R O BHM CLYND CHIP R O BHM CHIP R O BHM CLYND CHIP R O BHM CHIP R O BHM		

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J58 ,59 J60 J61 -69 J71 J72		R92-0338-05 R92-0670-05 R92-0338-05 R92-0670-05 R92-0338-05	CLYND CHIP R O ØHM CHIP R O ØHM CLYND CHIP R O ØHM CHIP R O ØHM CLYND CHIP R O ØHM	
J73 J91 R1 -20 R21 -24 R25 -27		R92-0670-05 R92-0338-05 RD41DB2B102J RD41DB2B473J RD41DB2B102J	CHIP R O 8HM CLYND CHIP R O 8HM CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 47K J 1/8W CYLND CHIP R 1.0K J 1/8W	
R30 R31 R32 -33 R34 R35 -37		RD41DB2B473J RD41DB2B1O2J RD41DB2B1O3J RD41DB2B1O1J RD41DB2B1O3J	CYLND CHIP R 47K J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 100 J 1/8W CYLND CHIP R 10K J 1/8W	
R38 R3946 R48 R5153 R54		RD41D82B1O2J RD41DB2B1O3J RD41DB2B473J RD41DB2B1O2J RD41DB2B1O4J	CYLND CHIP R 1.0K J 1/0W CYLND CHIP R 10K J 1/8W CYLND CHIP R 47K J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 100K J 1/8W	
R55 R57 R58 R59 R60		RK73FB2A223J RD41DB2B103J RD41DB2B473J RD41DB2B102J RD41DB2B473J	CHIP R 22K J 1/10 CYLND CHIP R 10K J 1/8W CYLND CHIP R 47K J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 47K J 1/8W	
R61 R62 R65 -67 R68 -70 R72		RD41DB2B1O3J RD41DB2B473J RD41DB2B1O2J RD41DB2B1O1J RD41DB2B1O4J	CYLND CHIP R 10K J 1/8W CYLND CHIP R 47K J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 100 J 1/8W CYLND CHIP R 100K J 1/8W	
R73 R7477 R79 R80 R81		RD41DB2B222J RD41DB2B472J RD41DB2B222J RD41DB2B472J RD41DB2B104J	CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 100K J 1/8W	
R82 R83 R84 -87 R89 R90 -93		RD41DB2B332J RD41DB2B223J RD41DB2B1O3J RD41DB2B511J RD41DB2B332J	CYLND CHIP R 3.3K J 1/8W CYLND CHIP R 22K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 510 J 1/8W CYLND CHIP R 3.3K J 1/8W	
R94 R95 R96 R97 -100 R101,102		RD41DB2B181J RD41DB2B104J RD41DB2B222J RD41DB2B103J RD41DB2B470J	CYLND CHIP R 180	
R103 R105 R106 R107 R108		RD410B2B332J RD410B2B122J RD410B2B102J RD410B2B122J RD410B2B102J	CYLND CHIP R 3.3K J 1/8W CYLND CHIP R 1.2K J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 1.2K J 1/8W CYLND CHIP R 1.0K J 1/8W	
R109,110 R111 R112,113 R114,115 R116		RD41DB2B122J RD41DB2B102J RD41DB2B103J RD41DB2B222J RD41DB2B331J	CYLND CHIP R 1.2K J 1/8W CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 330 J 1/8W	

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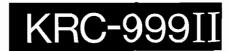
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参照番号	位 置	Parts 新	部品番号	部	品	名/規	格	_	nation 仕 向	mark 備考
R117,118 R119 R120 R121,122 R123			RD41DB2B102J RD41DB2B3331J RD41DB2B102J RD41DB2B224J RD41DB2B102J	CYLND CHIP CYLND CHIP CYLND CHIP CYLND CHIP CYLND CHIP	R R R	330 1. OK 220K	J J J	1/8W 1/8W 1/8W 1/8W 1/8W		
R124,125 R130-133 R134,135 R136,137 R138,139			RS14DB3D560J RD41DB2B102J RK73FB2A224J RD41DB2B563J RK73FB2A123J	FL-PRNNF R CYLND CHIP CHIP R CYLND CHIP CHIP R	R	220K	J J J			
R140,141 R142,143 R150-153 R154-157 R158-161			RK73FB2AB24J RK73FB2A224J RK73FB2A224J RK73FB2A682J RK73FB2A203J	CHIP R CHIP R CHIP R CHIP R CHIP R		820K 220K 220K 6.8K 20K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R162-165 R166-169 R170 R171 R172			RK73FB2A132J RK73FB2A332J RK73FB2A102J RD41DB2B102J RK73FB2A102J	CHIP R CHIP R CHIP R CYLND CHIP CHIP R	R	1.3K 3.3K 1.0K 1.0K 1.0K	J	1/10W 1/10W 1/10W 1/8W 1/10W		
R173 R174-177 R180-183 R184 R185			RD41DB2B102J RD41DB2B222J RD41DB2B102J RD41DB2B361J RD41DB2B683J	CYLND CHIF CYLND CHIP CYLND CHIF CYLND CHIP CYLND CHIP	R R R	2.2K 1.0K 360	J J J	1/8W 1/8W 1/8W 1/8W 1/8W		
R186 R187 R188 R189 R190			RD41DB2B361J RD41DB2B683J RD41DB2B104J RD41DB2B753J RD41DB2B474J	CYEND CHIP CYEND CHIP CYEND CHIP CYEND CHIP CYEND CHIP	R R R	68K 100K 75K]]] J			
R191 R192 R193 R194 R195			RD41DB2B103J RD41DB2B753J RD41DB2B104J RD41DB2B474J RD41DB2B103J	CYLND CHIF CYLND CHIP CYLND CHIF CYLND CHIP CYLND CHIF	R R R	75K 100K 470K	J J J	1/8W 1/8W 1/8W 1/8W 1/8W		
R196 R197 R198 R199 R200			RD41DB2B332J RD41DB2B223J RD41DB2B184J RD41DB2B224J RD41DB2B103J	CYLND CHIP CYLND CHIP CYLND CHIP CYLND CHIP CYLND CHIP	R R R	22K 180K 220K	J	1/8W		
R201 R202 R203 R204 R205			RD41DB2B332J RD41DB2B104J RD41DB2B473J RD41DB2B823J RD41DB2B103J	CYLND CHIF CYLND CHIP CYLND CHIF CYLND CHIP CYLND CHIF	R R R	100K 47K 82K]]]]	1/8W 1/8W 1/8W 1/8W 1/8W		
R206,207 R210-212 R213 R214 R215			RD41DB2B223J RD41DB2B103J RD41DB2B221J RD41DB2B203J RD41DB2B1B3J	CYLND CHIP CYLND CHIF CYLND CHIP CYLND CHIP CYLND CHIP	R R R	10K 220 20K	J J J	1/8W 1/8W 1/8W 1/8W 1/8W		
R216 R217,218 R219-221 R222-224 R225,226			RD41DB2B472J RD41DB2B104J RD41DB2B332J RD41DB2B123J RD41DB2B104J	CYLND CHIF CYLND CHIP CYLND CHIF CYLND CHIP CYLND CHIF	R R R	100K 3.3K 12K]]]]	1/8W 1/8W 1/8W 1/8W 1/8W		

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R227 R228 R229 R230 R231			RD41DB2B271J RD41DB2B224J RD41DB2B271J RD41DB2B181J RD41DB2B512J	CYLND CHIP R 270 J 1/8W CYLND CHIP R 220K J 1/8W CYLND CHIP R 270 J 1/8W CYLND CHIP R 180 J 1/8W CYLND CHIP R 5.1K J 1/8W	
R232 R233 R234 R235 R236,237			RD41DB2B683J RD41DB2B124J RD41DB2B222J RD41DB2B332J RD41DB2B163J	CYLND CHIP R 68K J 1/8W CYLND CHIP R 120K J 1/8W CYLND CHIP R 2.2K J 1/8W CYLND CHIP R 3.3K J 1/8W CYLND CHIP R 16K J 1/8W	
R238,239 R240 R241 R242,243 R244			RD41DB2B102J RD41DB2B103J RD41DB2B223J RD41DB2B103J RD41DB2B153J	CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 22K J 1/8W CYLND CHIP R 10K J 1/8W CYLND CHIP R 15K J 1/8W	
R245 R246 R247 R248 R250,251			RD41DB2B101J RD41DB2B223J RD41DB2B753J RD41DB2B223J RD41DB2B223J	CYLND CHIP R 10B J 1/8W CYLND CHIP R 22K J 1/8W CYLND CHIP R 75K J 1/8W CYLND CHIP R 22K J 1/8W CYLND CHIP R 22K J 1/8W	
R252,253 R254,255 R256,257 R258-261 R262,263		*	RD41DB2B334J RD41DB2B273J RD41DB2B221J RD41DB2B473J RS14KB3AR47J	CYLND CHIP R 330K J 1/8W CYLND CHIP R 27K J 1/8W CYLND CHIP R 220 J 1/8W CYLND CHIP R 47K J 1/0W FL-PROMF RS 0.47 J 1W	
R264 R266 R267 R268 R271		*	RD41DB2B472J RD41DB2B223J RK73FB2A472J RD41DB2B3ROJ RD41DB2B333J	CYLND CHIP R 4.7K	
R290-293 R294 R320 R321 R322		-	RD41DB2B102J RD41DB2B222J RK73FB2A123J RK73FB2A273J RK73FB2A123J	CYLND CHIP R 1.0K J 1/8W CYLND CHIP R 2.2K J 1/8W CHIP R 12K J 1/10W CHIP R 27K J 1/10W CHIP R 12K J 1/10W	
R323 R481 VR1			RK73FB2A273J RK73FB2A132J R12-1054-05	CHIP R 27K J 1/10W CHIP R 1.3K J 1/10W TRIMMING POT.(1K) AUTO VR	
S1	2E		S31-1011-05	SLIDE SWITCH	
PH1 →2			T95-0029-05	OPTO ISOLATOR	
D2 -16 D19 -24 D25 D26 D27			RLS-73 RLS-73 DSM1A1 RLS-73 DA204K	DIBDE DIBDE DIBDE DIBDE	
D28 ,29 D30 D31 D32 D35			RLS-73 ERA15-01Y1 RLZJS.6 DA204K RLZJ10	DIØDE DIØDE ZENER DIØDE DIØDE: ZENER DIØDE	
D36 -39 D40 D41			RLS-73 RD6.2JS(B2) RLZJ10	DIODE ZENER DIODE ZENER DIODE	

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参照番号	位置新	部品書号	部 品 名/規 格	仕 向 備考
D42 ,43 D44 ,45 D46 D47 ,48 D81 -84		MFC08D300M DSM1A1 ERA15-01Y1 RLZJ9.1 RLS-73	SURGE ABSØRBER DIØDE DIØDE ZENER DIØDE DIØDE	
D85 D86 IC1 IC2 IC3	* *	DLS1585 RLS-73 75108G-599-18 7507HG-517-22 PST520D	DINDE DINDE IC(MICRNPRNCESSNR) IC(MICRNPRNCESSNR) IC(LOW PNWER RESET)	
IC4 IC5 IC6 IC7 -11 IC12		KC-821 LB1630 TC9188F AN6556S NJM2903M	IC(MECHANISM DRIVER) IC(MOTOR DRIVER) IC(2CH ELECTRIC VOLUME) IC(0P AMP X2) IC(COMPARATOR X2)	
IC13 IC14 IC15 IC16,17 IC18	*	AN6556S NJM78L02UA AN6554NS AN6556S TA7705F	IC(0P AMP X2) IC(V0LTAGE REGULAT0R/ +12V) IC(0P AMP X4) IC(0P AMP X2) IC(PREAMP FOR AUT0 REVERSE)	
01 02 03 04 06	*	DTC124EK DTA114TK DTC124EK DTA124EK DTC143EK	DIGITAL TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR	
Q7 Q9 -11 Q12 Q13 Q19 -21		DTC124EK DTC124EK DTA124EK DTC124EK DTC124EK DTC143TK	DIGITAL TRANSISTÖR DIGITAL TRANSISTÖR DIGITAL TRANSISTÖR DIGITAL TRANSISTÖR DIGITAL TRANSISTÖR	
022 023 024 025 026		2SC2412K DTA124EK DTA144EK DTA124EK DTC124EK	TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR DIGITAL TRANSISTØR	
030 031 -34 035 ,36 037 ,38 039 ,40		DTC143TK DTC124EK 2SD1055F 2SB822F 2SB1188	DIGITAL TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR	
041 042 043 044 04649	*	2SD973 2SC2412K 2SD1406 2SC2412K DTA114TK	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR	
050 -53 054 055 060 -62 063		2SD1757K 2SA1037K 2SC2412K DTC124EK 2SD1766	TRANSISTØR TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR	
Q64 Q65 Q66 Q67 Q70 →71	*	2SC2412K DTC124EK FMW1 2SA1037K DTC124EK	TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR	

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参照番号	位 置 新		部品名	4 / 規格	marks 備考
Q72 ,73 Q74 ,75 Q76 ,77 Q78 ,79 Q83 ,84		2SB941 2SC2412K 2SA1037K DTC124EK 2SB822F	TRANSISTØR TRANSISTØR TRANSISTØR DIGITAL TRANSIS TRANSISTØR	STØR	
Q85 Q86 Q87 Q88		2SC2412K DTA124EK DTC124EK 2SD1055F	TRANSISTOR DIGITAL TRANSIS DIGITAL TRANSIS TRANSISTOR		
		TUNER AS	S'Y (W02-0667-05)		
D1 -3 D1 -3 FET1 FET1 TR1 -3		SVC321 1SV149 2SK163 2SK523 2SC2619	DIØDE DIØDE FET FET TRANSISTØR		
TR1 -3 TR1 -3		2SC2716 2SC2814	TRANSIST®R TRANSIST®R		
		FM FRONT-END	ASS'Y (W02-0768-	05)	
D1 D2 -5 FET1		1SV172 1SV103 3SK126	DIØDE DIØDE FET		
		SCREW SE	T (N99-0212-25)		
-		N09-1416-05 N09-1885-05 N14-0156-05	SEMS SCREW SEMS SCREW FLUNGE NUT	(Ø5X16) (M5)	
		SCREW SE	T (N99-0248-15)		
		N09-1572-05 N09-1885-05	FLAT SCREW SEMS SCREW	(Ø4X6) (Ø4X8)	
		CASSETTE MECHA	VISM ASS'Y (D40-0	341-05)	
4	2A,3A	809005008	CAP	(REEL)	
5 6 7 8 9	3A • 3B 3A 3A 3B 2A	D01-0072-08 D03-0242-08 D03-0246-08 D10-1506-08 D10-1507-08	FLYWHEEL ASSY REEL DISK ASSY REEL DISK LEVER LEVER	(C®NTRØL SHASSIS (DØWN B)	
10 11 12 13 14	3B 1A 1B 2B 2B	D10-1508-08 D10-1509-08 D10-1511-08 D10-1512-08 D10-1513-08	LEVER LEVER LEVER LEVER LEVER	(DNWN A) (DAH C). (MUTING) (T.ADV R)	
15 16 17 18 19	1B 3B 1A 1B 2B	D10-1514-08 D10-1515-08 D10-1516-08 D10-1517-08 D10-1518-08	LEVER LEVER ASSY LEVER ASSY LEVER ASSY LEVER ASSY	(T.ADV) (DOWN C)	
20 21 22 23 25	2B 1B 2B 3A 2B	D10-1519-08 D10-1520-08 D10-1521-08 D10-1522-08 D12-0110-08	LEVER ASSY LEVER ASSY LEVER ASSY LEVER ASSY CAM	(DAH B) (T. ADV LEVER F) (T. ADV) (FR)	
26 27 28	3B 3A 3A	D13-0287-08 D13-0288-08 D13-0289-08	GEAR GEAR GEAR	(FWD)	

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29 30 31 32 33	3A 3A 3A 3A 3A	D13-0290-08 D13-0291-08 D13-0292-08 D13-0293-08 D13-0294-08	GEAR GEAR GEAR GEAR GEAR ASSY (FR)		
34 35 36 37 38	-3A 1A,3B 1B 1B 2B	D13-0295-08 D14-0128-08 D14-0129-08 D14-0133-08 D15-0238-08	GEAR ASSY (PLAY) RÖLLER PINCH RÖLLER ASSY RÖLLER (HEAD) PULLEY		
39 40 41	3B 3B 1B•2B	D16-0122-08 D16-0123-08 D90-0028-08	BELT BELT STEEL BALL		
51	18	F10-0570-08	SHIELDING PLATE (HEAD)		
55 56 57 58 59	28 28 18 18	G01-1716-08 G01-1717-08 G01-1718-08 G01-1719-08 G01-1720-08	COMPRESSION SPRING (T.ADV) TENSION SPRING TORSION COIL SPRING COMPRESSION SPRING (F). COMPRESSION SPRING (R)		
60 61 62 63 64	3B 2A,2B 1A 2B 3A	601-1721-08 601-1722-08 601-1723-08 601-1724-08 601-1725-08	TENSION SPRING TENSION SPRING TENSION SPRING TENSION SPRING TORSION COIL SPRING		
65 66 67 68 69	1A 2A 1B 1B 1A	601-1726-00 601-1754-08 602-0369-08 609-0058-08 609-0059-08	COMPRESSION SPRING TENSION SPRING FLAT SPRING SPRING SPRING		
70	3A	G09006008	SPRING		
78 79 80 81 82	18 3A 1A 2A 2A	J25-4726-08 J25-4867-08 J19-2556-08 J19-2557-08 J21-3684-08	PRINTED WIRING BOARD PRINTED WIRING BOARD HOLDER ASSY HOLDER ASSY MOUNTING HARDWARE ASSY		
84 85 86 87	18 1A,1B 1A 2A	J30-0211-08 J31-0258-08 J32-0298-08 J90-0156-08	SPACER CBLLAR BBSS GUIDE		
100 101 102 103 104	28,38 24,28 24,34 34 24,34	N19-0374-04 N19-0955-08 N19-0956-08 N19-0957-08 N19-0958-08	FLAT WASHER (Ø3X/1.2X0.25) FLAT WASHER (Ø4.5XØ1.7X0.4) FLAT WASHER (Ø2.5XØ1.0X0.25) FLAT WASHER (Ø2.5XØ1.6X0.25) FLAT WASHER (Ø3.2XØ1.7X0.25)	5	
105 106 107 108 109	2B 2B,3B 3A 1B,2B 1A,3B	N19-0959-08 N19-0960-08 N19-0961-08 N24-3012-41 N24-3015-41	FLAT WASHER (Ø5X/2.5X0.13) FLAT WASHER (Ø3.5XØ2.1X0.13) FLAT WASHER (Ø3.2XØ1.7X0.25) E TYPE RETAINING RING (1.2) E TYPE RETAINING RING (1.5)		
110 A B	28 3A 18	N24-3016-08 N09-1534-08 N09-1562-08	E TYPE RETAINING RING SCREW (M1.4X3) SCREW (M1.2X2)		

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\$901 \$902 \$903 \$904	2B 2A 2A 2A	\$46-1064-08 \$46-1065-08 \$31-1010-08 \$46-1066-08	LEAF SWITCH (MUTING) LEAF SWITCH SLIDE SWITCH (POWER) LEAF SWITCH		
120 121 MB01,802 M901	1B 3A 2A 2B	T31-0031-08 T94-0088-08 T49-0019-08 T42-0077-08	PLAYBACK HEAD SØLENØID MØTØR (FF/REW,FWD/REV DC MØTØR ASSY		

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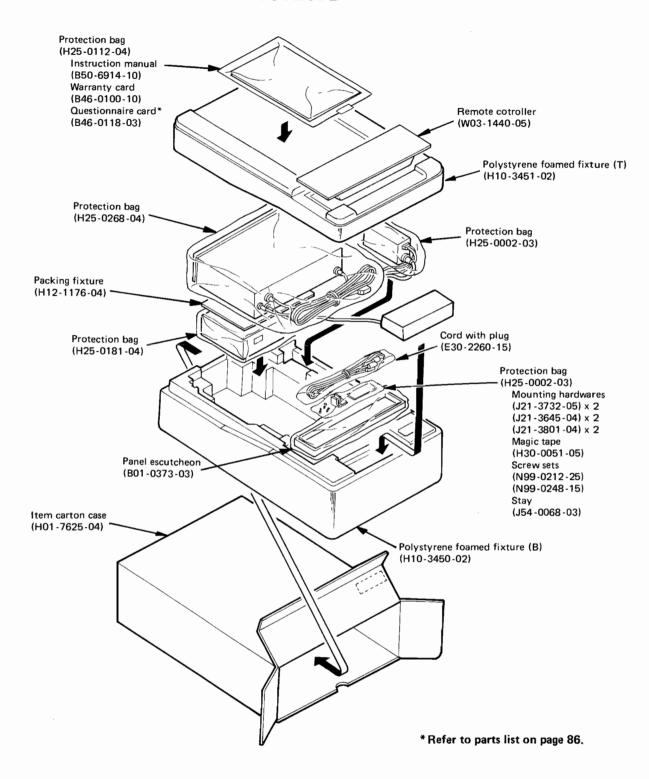
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PACKING





SPECIFICATIONS

FM Tuner Section	
Frequency range	
Channel Space	
	100 kHz (For *South East Asia)
Usable Sensitivity	
50 dB Quieting Sensitivity Frequency Response (±1 dB)	15.2 dbf (1.6µV//5 onms)
Signal to Noise Ratio	
Alternate Channel Selectivity	
Capture Ratio	
Image Response Ratio	
IF Response Ratio	
Stereo Separation (1 kHz)	40 dB
AM Tuner Section	
Frequency Range	530 ~ 1620 kHz (For *America)
	522~1611 kHz (For *South East Asia)
Channel Space	
	9 kHz (For *South East Asia)
Usable Sensitivity	28 dB (30 µV)
Cassette Deck Section	
Tape Speed	
Wow and Flutter	
Fast Winding Time (C-60)	
Frequency Response (120 µS)	20 Hz ~ 20 kHz (±3 dB) 20 Hz ~ 22.5 kHz (±3 dB)
Stereo Separation (1 kHz)	
Signal to Noise Ratio	
NR OFF	62 dB
Dolby B ON	
Dolby C ON	76 dB
dbx ON	86 dB
Equalizer Section	
Equalizer Action ± 12 dB at 60 Hz, 120 H.	z, 250 Hz, 500 Hz, 1 kHz, 3.5 kHz, 10 kHz
Frequency Response	
Total Harmonic Distortion	0.01%
Audio Section	
Preamp Output	Normal: 300 mV/10 k ohms load
	High: 1.0 V/10 k ohms load
General	
Operating Voltage (GND)	14.4 V (11~16 V allowable)
Current Consumption	0.8 A at Rated Power
Body size (W×H×D)	180×50×155 mm
	$(7-1/16 \times 1-15/16 \times 6-1/8 \text{ in.})$
Weight	2.2 kg (4.9 lb)

Received only in the countries indicated with *.

Specification subject to change without notice.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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